METAL WORKING TOOLS

BENDING BRAKES - PUNCHES - SHEARS

WHITNEY-JENSEN

CATALOGUE

No. 14

EFFECTIVE SEPTEMBER 1, 1940

WHITNEY METAL TOOL CO.

99 Forbes Street

ROCKFORD, ILLINOIS

WHITNEY-JENSEN CATALOG NO. 14

EFFECTIVE SEPTEMBER 1

Supersedes All Previous Catalogs

Practical Rules

OIL

Always use a few drops of oil on punches when using as it will increase the life of them.

PUNCH AND COUPLER

The punch is intended to float; i.e., it is not held tight by the coupler in the spindle and will always center itself when at work.

SPINDLE

Remember the spindle turns on Ball Bearings, therefore use some heavy oil occasionally on the spindle by removing the upper handle and dust cap. Oil also can be inserted at the bottom of the spindle.

STRIPPER FINGERS

Always take care the stripper fingers are set in a parallel position. Do not allow one of them to be higher than the other as this will have a tendency to break the punch 99 times out of a 100 when the punch is being stripped from the material at an angle.

PUNCHING I-BEAMS

When punching the flange of I-Beam always use a bevel die to compensate the bevel of the I-Beam.

Kindly read carefully instruction card attached to each machine.

To Get Results Use
Genuine Punches and Dies Marked Thus:

TRADE W MARK

There Is a Difference

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DISCOUNT SHEET

30% Discount

From Catalog No. 14
September 1, 1940
Excepting Brakes and Punches and Dies

Quantity Orders
30-10% from List

On orders of six or more of one kind of the following machines: Nos. 16-17-20 Punch Machines, Nos. 20-40 Punch Bases, No. 9 Button Punch, Nos. 2-3-4-6-36 Shears, Nos. 49-50-60 Notchers, Nos. 51-53-61 Benders, No. 455 Angle Iron Combination, No. 55 Cut-off Set.

You can not mix—must be six of one kind.

30-10% from List

On orders of twelve or more of one kind of the following machines: Nos. 5-7-7½-8-Imperial-10-11-12 Punch Machines, Nos. 7-7½-8-Imperial-10-11-12 Punch Bases, and Nos. 1-2-3-4 Hollow Sets, No. 0 Solid Set, No. 23 Clip Punch, No. 41 Notcher, No. 42 Hand Seamer. Nos. 7-7½-8-Imperial may be grouped to constitute a dozen lot to receive extreme discount. Nos. 10-11-12 may be grouped to constitute dozen lots to receive extreme discount. Others cannot be mixed—must be twelve of one kind, except tools where the prices are the same.

Discount on Brakes

12, 14, 16, 18 gauge and Air Conditioning types, 20% off list.

BRAKE FORMING MOULDS

30% off list.

QUANTITY BRAKE FINGER DISCOUNTS

30% from list in quantities less than 13".
30%-10% from list in quantities of 13" to 26".
30%-10%-5% from list in quantities of 26" to 50".
30%-10%-10% from list in quantities of 50" or over.

All Prices f. o. b. Rockford, Ill.

Manufactured by
WHITNEY METAL TOOL CO.
99 Forbes Street
ROCKFORD, ILLINOIS

DISCOUNTS ON HAMMERS

30% from list on orders less than twelve.
30-5% from list on orders of twelve to one half-gross.
30-10% from list on orders of one-half gross or more.

DISCOUNTS ON PUNCH PRESSES AND FOOT PRESSES

30% off list Nos. 28 and 29, 58 and 68, 129 and 130.

DISCOUNTS ON RIVET SETS

30% from list on orders less than twelve.
30-5% from list on orders of twelve to one-half gross.
30-10% from list on orders of one-half gross or over.

DISCOUNTS ON ROLLING MACHINES

30% off list.

DISCOUNTS ON SCRATCH AWLS

30% from list on orders less than twelve.
30-10% from list on orders of twelve or more.

DISCOUNTS ON WHITMETAL SCRATCH PINS

30% from prices listed.
30-10% from list on lots of 100.

PRICES OF PUNCHES AND DIES

SEPTEMBER 1, 1940

NET PRICES, NO DISCOUNT - F.O.B. ROCKFORD, ILLINOIS

NOTE: IN LOTS of 100 PUNCHES and DIES THERE IS 10% ALLOWED from LIST. MIX THEM UP AS YOU LIKE.

PUNCHES AND DIES THAT ARE INTERCHANGEABLE

No. 5 and Parker OX Dies; Nos. 7 and 7½ Dies; Nos. 7½, 8 Imperial, and No. 2 Punches; No. 8 Imperial and No. 2 Dies; Nos. 10, 11, 12, 15 Punches and Dies; Nos. 20, 24, 25, 40-A Punches and Dies; Nos. 16, 17 and 20 Dies; Nos. 26 and 27 Punches and Dies; Nos. 40 and 40-B Punches and Dies.

Size of Machine		Each
5	Punches or Dies on orders of one to 12	$ .25
	Punches or Dies on orders of 12 or more	.20
	Punches Type N-P-R shown on page 8	1.60
	Dies Type N-P-R shown on page 8	2.00
	Punches Type M shown on page 8	2.00
	Dies Type M shown on page 8	2.30
7	Punches or Dies on orders of one to 12	.30
	Punches or Dies on orders of 12 or more	.25
	Punches Type N-P-R shown on page 8	2.00
	Dies Type N-P-R shown on page 8	2.50
	Punches Type M shown on page 8	2.30
	Dies Type M shown on page 8	2.80
7½	Punches on orders of one to 12	.45
	Punches on orders of 12 or more	.35
	Dies on orders of one to 12	.30
	Dies on orders of 12 or more	.25
	Punches Types N-P-R shown on page 8	2.00
	Dies Types N-P-R shown on page 8	2.50
	Punches Types M shown on page 8	2.30
	Dies Types M shown on page 8	2.80
8 Imperial	Punches on orders of one to 12	.45
	Punches on orders of 12 or more	.35
	Dies on orders of one to 12	.50
	Dies on orders of 12 or more	.40
	Punches Types N-P-R shown on page 8	2.00
	Dies Types N-P-R shown on page 8	2.50
	Punches Types M shown on page 8	2.30
	Dies Types M shown on page 8	2.80

Size of Machine		Each
10, 11, 12, 15 All Interchangeable	Punches or Dies on orders of one to 12	$ .30
	Punches or Dies on orders of 12 or more	.25
	Punches or Dies Type N-P-R shown on page 8	2.50
	Punches or Dies Type M shown on page 8	3.00
	Necessary Guide and Stripper Plate for irregular shaped Punches	3.15
16	Punches on orders of one to 12	.45
	Punches on orders of 12 or more	.35
	Dies on orders of one to 12	.50
	Dies on orders of 12 or more	.45
	Punches Type N-P-R shown on page 8	2.00
	Dies Type N-P-R shown on page 8	5.00
	Punches Types M shown on page 8	2.30
	Dies Types M shown on page 8	6.00
17	Punches on orders of one to 12	.50
	Punches on orders of 12 or more	.40
	Dies on orders of one to 12	.50
	Dies on orders of 12 or more	.45
	Punches Types N-P-R shown on page 8	2.10
	Dies on Types N-P-R shown on page 8	5.00
	Punches Types M shown on page 8	2.40
	Dies Types M shown one page 8	6.00
20, 24, 25, 40A All Interchangeable	Punches or Dies on orders of one to 12	.50
	Punches or Dies on orders of 12 or more	.45
	Punches or Dies Types N-P-R shown on page 8	5.00
	Punches or Dies Types M shown on page 8	6.00
	Necessary Guide Stripper Plate for irregular shaped Punches	4.40
Be sure to State Punch Shank Diam.	Punches up to and 11/16″ dia. inclusive, No. 20 style, 1 to 12	.50
	12 or more	.45
	Punches up to and 1″ dia. inclusive, No. 40 style, 1 to 12	.70
	12 or more	.60
	Punches over 1 to 15/16″ dia., 1 to 12	2.35
	12 or more	2.25
26 and 27 Punches	Punches 15/16″ to 1⅝″ dia., 1 to 12	2.60
	12 or more	2.50
	Punches 1⅝″ to 2″ dia., inclusive, 1 to 12	2.80
	12 or more	2.70
Be sure to State O.D. of Dies	Dies up to and ¾ dia. inclusive, No. 20 flat top style, 1¼″ O.D. 1 to 12	.50
	12 or more	.45
	Dies up to 17/16″ dia., No. 40 flat top style, 2⅛″ O.D. 1 to 12	.75
	12 or more	.65
	Dies 17/16″ to 2″ dia. inclusive, 2¾″ O.D. 1 to 12	2.00
	12 or more	1.90

Size of Machine		Each
Be sure to State Punch Shank Diam.	Punches up to ½″ dia. inclusive, No 8 style, 1 to 12	$ .45
	12 or more	.35
	Punches up to and 11/16″ dia. inclusive, No. 20 style, 1 to 12	.50
	12 or more	.45
	Punches up to and 1″ dia. inclusive, 1″ shank 1 to 12	.75
	12 or more	.65
	Punches over 1″ to 1¼″ dia., 1″ shank, 1 to 12	.85
	12 or more	.75
28	Punches 1¼″ to 1½″ dia., 1″ shank, 1 to 12	1.15
29	12 or more	1.05
58	Punches 1½″ to 1¾″ dia., 1″ shank, 1 to 12	1.35
68	12 or more	1.25
	Punches 1¾″ to 2″ inclusive, 1″ shank, 1 to 12	1.60
	12 or more	1.50
Punch Presses	Dies up to and ¾″ dia. inclusive, No. 20 flat top style, 1¼″ O.D. 1 to 12	.50
Be sure to State O.D. of Dies	12 or more	.45
	Dies up to 17/16″ dia., No. 40 flat top style, 2⅛″ O.D. 1 to 12	.75
	12 or more	.65
	Dies 17/16″ to 2″ dia. inclusive, 2¾″ O.D. 1 to 12	2.00
	12 or more	1.90

40, 40B Are Interchangeable	Punches on orders of one to 12	.70
	Punches on orders of 12 or more	.60
	Dies on orders of one to 12	.75
	Dies on orders of 12 or more	.65
	Punches Types N-P-R shown on page 8	5.00
	Dies Types N-P-R shown on page 8	7.00
	Punches Types M shown on page 8	5.30
	Dies Types M shown on page 8	8.00
	Necessary Guide and Stripper Plate for irregular shaped Punches	6.25

1	Punches on orders of one to 12	.45
	Punches on orders of 12 or more	.35
	Dies on orders of one to 12	.50
	Dies on orders of 12 or more	.40

2	Punches on orders of one to 12	.45
	Punches on orders of 12 or more	.35
	Dies on orders of one to 12	.50
	Dies on orders of 12 or more	.40

Nos. 1 and 2 Punches and Dies are for the W. A. Whitney Mfg. Company's tools.

OX	Punches or Dies on orders of one to 12	$ .25
	Punches or Dies on orders of 12 or more	.20
XX and Hyro 18	Punches or Dies on orders of one to 12	.30
	Punches or Dies on orders of 12 or more	.25
Kidder No. 1	Punches on orders of one to 12	.45
	Punches on orders of 12 or more	.40
	Dies on orders of one to 12	.65
	Dies on orders of 12 or more	.50
Kidder No. 2	Punches on orders of one to 12	.70
	Punches on orders of 12 or more	.65
	Dies on orders of one to 12	.85
	Dies on orders of 12 or more	.75
Nos. 28, 29, 58, 68 Style, Square and & Irregular Shaped Punches and Dies	Punches, Type N, P, R shown on page 8, within 1″ circle	$5.50
	Punches, Type M shown on page 8, within 1″ circle	6.50
	Punches, Type N, P, R shown on page 8, within 1¼″ circle	5.75
	Punches, Type M shown on page 8, within 1¼″ circle	6.75
	Punches, Type N, P, R shown on page 8, within 2″ circle	6.75
	Punches, Type M shown on page 8, within 2″ circle	8.00
	Punches, Type N, P, R shown on page 8, within 2½″ circle	8.50
	Punches, Type M shown on page 8, within 2½″ circle	9.50
	Punches, Type N, P, R shown on page 8, within 3″ circle	10.50
	Punches, Type M shown on page 8, within 3″ circle	12.00
	Dies, Type N, P, R, 1¼″ O.D. shown on page 8	$5.00
	Dies, Type M, 1¼″ O.D. shown on page 8	6.00
	$\frac{3}{16}$″ wall is necessary on 1¼″, O.D. Dies.	
	Dies, Type N, P, R, 2⅛″ O.D. shown on page 8	7.00
	Dies, Type M, 2⅛″ O.D. shown on page 8	8.00
	Dies, Type N, P, R, 2¾″ O.D. shown on page 8	9.00
	Dies, Type M, 2¾″ O.D. shown on page 8	10.00
	$\frac{5}{16}$″ wall is necessary on 2⅛″ and 2¾″ O.D. Dies.	
	Dies, Type N, P, R, 3¾″ O.D. shown on page 8	12.00
	Dies, Type M, 3¾″ O.D. shown on page 8	14.00
	⅜″ wall is necessary on 3¾″ O.D. Dies.	
	*Special Bolster required for all dies larger than 2¾″ O.D.	18.00

***PUNCHES FURNISHED WITH SPECIAL SHEAR QUOTED ON APPLICATION.**

***PUNCHES AND DIES WITH DIMENSION LESS THAN ⅛″ WILL BE QUOTED UPON APPLICATION.**

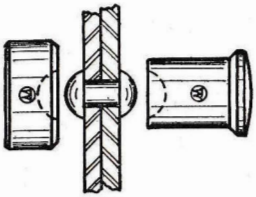
*NET f.o.b. Rockford, Ill.

NOTE:—Drill size punches and dies 10c extra.

Prices of the M, N, P, R type punches and dies are for sizes from corner to corner within the diameter of the largest round punch for each respective tool.

Largest round punch furnished with each respective tool:
No. 5 Jr., $\frac{9}{32}$″
No. 7 and 7½ Roller Bearing Punch, $\frac{7}{16}$″
No. 8-Imperial; 10, 11, 12, and 15 Ball Bearing Punches, ½″
No. 16 and 17 Bench Punches, $\frac{9}{16}$″
No. 20, 24, 25 Punches, $\frac{11}{16}$″
No. 40 Punch, 1″
Other special sizes quoted upon application.

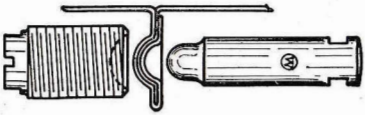
Rivet and Button Punches and Dies



We can supply from stock Riveting Punches and Dies.

Riveting Punch for No. 10, 11, 12	$ 1.00
Riveting Die for No. 10, 11, 12	1.00
Riveting Punch for No. 20, 24, 25	1.25
Riveting Die for No. 20, 24, 25	1.25
Riveting Punch for No. 40	1.65
Riveting Die for No. 40	1.65

BE SURE TO STATE DIAMETER AND LENGTH OF RIVET YOU WISH TO USE.

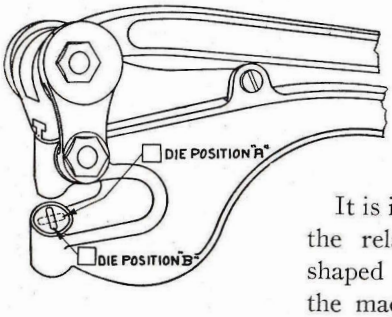


Button Punches and Dies can be furnished for all our lever type punches, namely 5-7-7½-8-Imperial.

Price Button Punch for No. 5	$ .70
Price Button Die for No. 5	.70
Price Button Punch for No. 7	.80
Price Button Die for No. 7	.80
Price Button Punch for No. 7½	.90
Price Button Die for No. 7½	.80
Price Button Punch for No. 8	.90
Price Button Die for No. 8	.90

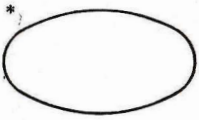
f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

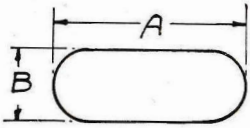


It is important that we know the relation of all irregular shaped punches and dies with the machine you wish to use them, therefore specify desired position, A or B. We make Punches and dies of the following shapes to fit any machine. *Give radii of Type "L".

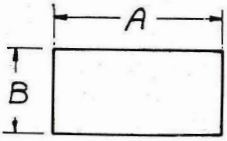
*



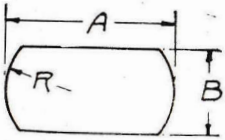
Type L quoted on application



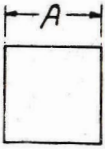
Type M



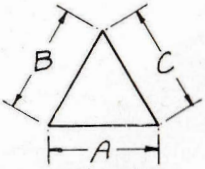
Type N



Type P



Type R



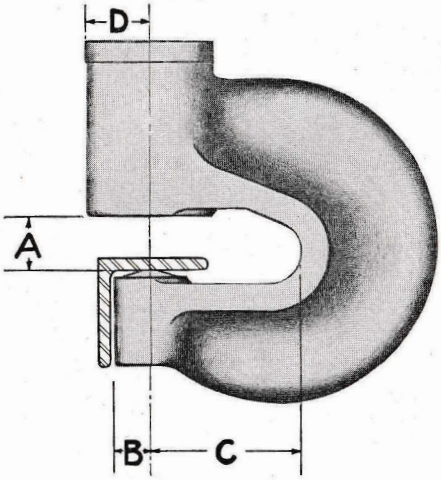
Type S

Type T

Special stripper plates must be used on all Ball Bearing Type Punches when irregular shaped punches and dies are used. This does not mean roller bearing punches. See page 6 for sizes.

TYPES L-T-S QUOTED ON APPLICATION

Punch Clearances



Punch	A	B	C	D	Punch	A	B	C	D
5	3/16	11/32	1 1/2	11/32	15	7/8	5/8	3 3/4	1 1/8
7	1/4	1/2	1 3/4	3/8	16	1/2	7/8	3 9/16	5/8
7 1/2	3/8	1/2	2	3/4	17	1/2	7/8	6 1/4	5/8
8	5/16	5/8	2 1/8	9/16	20	1 5/16	15/16	2 1/8	1 1/4
9	17/32	11/32	1 5/8	11/32	24	2 1/8	1	3 1/2	1 1/2
10	7/8	9/16	1 5/8	13/16	25	2 1/2	15/16	8 1/4	1 3/8
11	7/8	9/16	1 5/8	13/16	26	2 1/4	1 3/4	18	1 3/4
12	7/8	5/8	2 3/16	13/16	27	2 1/4	1 3/4	24	1 3/4
14	5/8	11/16	2 1/2	1 1/8	40	2 1/8	17/16	3 1/2	1 13/16

NOTE—The above figures are for our Standard Punches. We also make these Punches Special, with dimension "B" smaller. If you cannot use the above, write us, stating your requirements.

No. 5 Jr. Punch Parts

5-1	Lower Handle	$4.00
5-2	Upper Handle	2.15
5-3	Eccentric Pin, 2 required, ea.	.20
5-4	Lower Handle Screw	.18
5-5	Eccentric Side Link Washer, 4 required, ea.	.15
5-6	Eccentric Side Link, 2 required, ea.	.35
5-7	Eccentric Arm Complete	2.20
5-7-3	Pressure Pin	.50
5-7-4	Eccentric Arm Rivet	.15
5-10	Cam Pin	.20
5-13	Gauge	.20
5-13-1	Screw	.10

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

We are the originators of this type of punch, and it still leads the world. We build tools which last longer. Be sure it is a WHITNEY No. 5 JR. PUNCH. Sold and carried in stock in every city in the United States, also Canada and England.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Be Sure the Letter TRADE W MARK **Is on ALL Your**

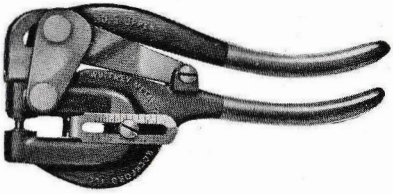
PUNCHES AND DIES

They Are Made in Our Own Factory and Are Genuine

No. 5 Jr. Punch

6 Punches and Dies in a
Cannot-loose-out
Container

One in Tool



CAPACITY ¼-INCH THROUGH 16 GAUGE

Weight	2½ lbs.
Punch in center of	4 inches
Length over all	8½ inches
Height of gap	¼ inch

Tool furnished complete with seven sets of punches and dies, $\frac{3}{32}''$, $\frac{1}{8}''$, $\frac{5}{32}''$, $\frac{3}{16}''$, $\frac{7}{32}''$, $\frac{1}{4}''$, and $\frac{9}{32}''$ or in any stock size specified.

We also furnish any size punch and die from $\frac{1}{16}''$ to $\frac{9}{32}''$ by $\frac{1}{64}''$.

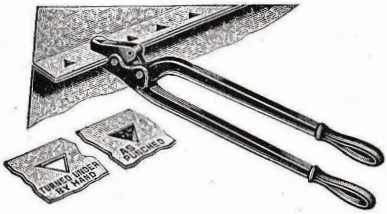
PRICE—In Paper Carton with cannot loose out container....$9.20
In Metal Box as shown.... 9.60

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 23 Clip Punch



Capacity	3 thicknesses, 24 gauge or equal
Weight	6 pounds
Price	$25.00

This tool is for clipping together duct work seams of any type, plain, folded, or overhanging. Punches out a triangular "ear" which, when folded down, gives a secure three-way lock. Flat-nosed jaws permit access to tight places. A fast, accurate, useful, durable tool for air conditioning and warm air heating system installers.

No. 23 Clip Punch Parts

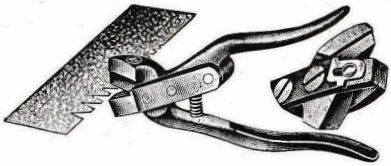
23-10	Lower Handle	$15.00
23-2A	Upper Handle	10.00
23-3	Upper Jaw	8.50
23-4	Link	1.00
23-5	$\frac{5}{16}$" Pin with Thread	.90
23-6	$\frac{7}{16}$" Straight Pin	.40
23-7	$\frac{5}{16}$" Straight Pin	.20
23-12	Punch	2.25
23-11	Die	1.50
WS1349	$\frac{5}{16}$" Hex Half Nut SAE	.15
WS793	$\frac{1}{4}$" x $\frac{3}{8}$" Socket Set Screw	.25
WS786	Punch or Die Set Screw	.10

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 41 Hand Notcher



Capacity	20 gauge
Weight	1 pound
Price	$ 6.00

This tool is for making notches of any depth up to $\frac{13}{16}$". Features include: full opening in die to permit punchings to fall through, and double-duty adjustable depth gauge which does not project beyond nose of die. A clean-cutting, quick-action tool for notching out box corners, curved flanges, etc.

No. 41 Notcher Parts

41-2	Lower Handle, long	$1.50
41-1	Upper Handle, short	1.25
41-5	Spring Guide	.20
41-6	Spring	.30
41-13	Special Flat Head Machine Screw	.15
41-8	Upper Shear Blade	1.00
WS1020	Upper Shear Blade Screw	.15
41-9	Depth Gauge	.40
WS1115	Gauge Screw	.15
41-10	Pivot Bushing	.30
41-14	Lower Shear Blade	2.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 7 Roller Bearing Punch

Capacity	¼ in. through ⅛ in.
Weight	6½ lbs.
Punch in center of	3½ in.
Length over all	18 in.
Height of gap	½ in.
Price each	$17.50

Tool furnished with three punches and dies.

No. 7½ Roller Bearing Punch

Capacity	¼ in. through $\frac{3}{16}$ in.
Weight	10½ lbs.
Punch in center of	4 in.
Length over all	22 in.
Height of gap	⅜ in.
Price each	$21.25

Tool furnished with three punches and dies.

No. 8 Imperial Roller Bearing Punch

Capacity	¼ in. hole through ¼ in.
Weight	16 lbs.
Punch in center of	4¼ in.
Length over all	25½ in.
Height of gap	⅜ in.
Price each	$25.00

Tool furnished with three punches and dies.

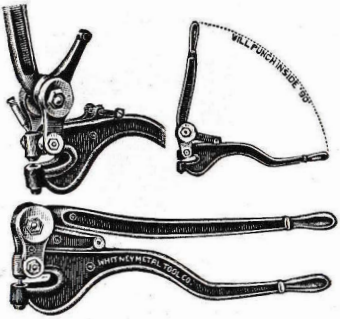
f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See page 3, for prices on extra punches and dies.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Nos. 7, 7½, 8-Imperial Punches Roller Bearing



The above type Punches are made in three sizes. Will work inside 90 degrees. Quick changing of Punches and Dies. No lever to become disengaged by moving too far in either direction. No cams to wear out. Stripping positive.

Sizes of Punches and Dies which can be furnished:

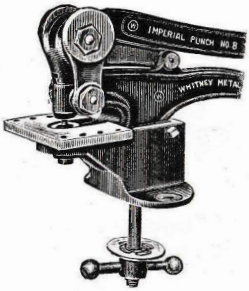
For the No. 7 and No. 7½ Roller Bearing Punch—
$\frac{1}{8}''$ to $\frac{7}{16}''$ by $\frac{1}{64}''$.

For the No. 8 Imperial Punches—
$\frac{1}{8}''$ to $\frac{1}{2}''$ by $\frac{1}{32}''$.

Punches for the No. 7½ Punch are the same as the ones used in our No. 8-Imperial Punch and the dies the same as used in our No. 7.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Universal Base for No. 7, No. 7½, and No. 8-Imperial Punches



Price No. 7 Base	$ 7.75
Weight No. 7 Base	6¼ lbs.
Price No. 7½ Base	$ 8.00
Weight No. 7½ Base	8 lbs.
Price No. 8 Base	$ 8.50
Weight No. 8 Base	9¾ lbs.

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

These convenient swivel bases have a series of holes drilled and tapped in table for clamping on various locating stops in duplicating holes.

Size of holes tapped in Tables are for ¼"-20 U. S. S. Screws.

Size of Table for No. 7, 3"x5"
Size of Table for No. 7½, 3½"x5"
Size of Table for No. 8, 3¾"x5"

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 7 Roller Bearing Punch Parts

7-1	Lower handle	$ 8.00
7-2	Upper handle	5.00
7-3	Side link bolts, 2 required, ea.	.20
7-4	Lower handle screw	.20
7-5	Side links, 2 required, ea.	.50
7-6	Side link nuts, 4 required, ea.	.10
7-7	Eccentric arm	3.10
7-8	Roller bearings, 48 required, 4c ea., per set	.75
7-9	Eccentric cam, 2 required, ea.	1.65
7-10	Cam pin, 2 required, ea.	.10

No. 7½ Roller Bearing Punch Parts

7½-1	Upper punch handle	$ 6.50
7½-2	Lower punch jaw handle	10.00
7½-3	Eccentric arm	3.55
7½-4	Eccentric link, 2 required, ea.	.55
7½-5	Eccentric cam, 2 required, ea.	1.70
7½-6	Eccentric pin, 2 required, ea.	.10
7½-7-1	Roller bearings, 28 req., 5c ea., per set	.85
7½-7-2	Roller bearing retainer, 4 required, ea.	.30
7½-7-3	Roller bearing spacer, 6 required, ea.	.10
7½-10	Eccentric bolts, 2 required, ea.	.25
7½-11	Eccentric bolt nut, 4 required, ea.	.15
7-4	Lower handle screw	.20
7½-7	Complete roller bearings assembly, 2 required, ea.	1.50

Imperial Punch No. 8

8-1	Lower jaw handle	$12.00
8-2	Upper lever handle	8.00
8-3	Eccentric bolt, 2 required, ea.	.25
8-4	Cam pin, 2 required, ea.	.10
8-5	Lower handle screw	.20
8-6	Side Link, 2 required, ea.	.60
8-7-3	Roller bearing spacer, 4 required, ea.	.10
8-8	Eccentric arm	4.00
8-9	Eccentric cam, 2 required, ea.	1.70
8-7-1	Roller bearings, 24 req., 5c ea., per set	.85
8-7-2	Roller bearing retainer, 4 required, ea.	.30
8-12	Eccentric bolt nuts, 4 required, ea.	.20
8-7	Roller bearing assembly, 2 required, ea.	1.40

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

For prices on extra Punches and Dies, see page 3.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Aircraft Rivet Squeezer Parts

1072-Z	Handle, 2 required, each	$2.00
1074-Z	Handle Link Bolt, 4 required, each	.50
1075-Z	Handle Link Bolt Nut, 4 required, each	.20
9-6	Side Link, 4 required, each	1.00
1077-Z	Anvil Yoke	1.70
1078-Z	Yoke to Frame Bolt, 2 required, each	.50
1079-Z	Yoke to Frame Bolt Nut, 2 required, each	.20
1085-Z	Spindle Spool	6.00
1086-Z	Spindle	4.60
1087-Z	Handle and Spindle Pins, 2 required, each	.20
1088-Z	Spindle Die	1.25
1089-Z	Spindle Die Washer	.25

f. o. b. Rockford, Ill.

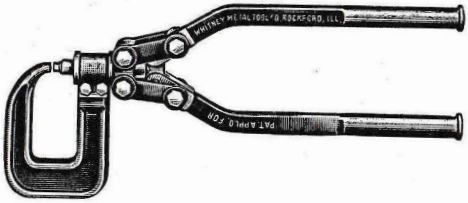
SEE DISCOUNT SHEET, PAGES 1 AND 2

TRADE W MARK

Do not insert Slugs in the end of Spindle of Ball Bearing Type Machines as this will break Punches. After the Punch Coupler has been securely tightened, the Punch should Revolve Freely.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Aircraft Rivet Squeezer



Capacity 1/8" Aluminum Rivet.

Aircraft Type. Spindle travel $\frac{13}{16}$".

Prices complete with Jaw and Handles.

No. 1, throat depth 1¾"	$35.00
No. 2, throat depth 2½"	37.00
No. 3, throat depth 3½"	39.00
No. 4, throat depth 2⅞"	37.00
No. 5, throat depth 6"	45.00
Handle Assembly only	25.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

The handle assemble is interchangeable with all jaws with exception of spindle. Therefore if just the jaws are desired, prices are as above less the handle assembly price of $25.00. The jaws can be furnished with ball bearing spindles as well as lever type handles.

We have also made other special jaw designs; such as, Alligator, Snake Head, Pelican, and Crab.

Adjustment is provided so certain pressure may be obtained at end of spindle stroke, assuring rivet has been properly set up. Made from very high grade material and light, weighing hardly more than an ordinary wrench.

NOTE: Jaws Nos. 1, 2 and 3 have interchangeable spindle lengths, while No. 4 and 5 require individual spindle lengths. Therefore if changing from a No. 1 Jaw to a No. 4 or 5, it would require a different spindle, but the handle assembly otherwise is interchangeable throughout.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 9 Universal Button Punch Parts

9-1	Lower Jaw	$15.00
9-2	Handle, 2 required, ea.	3.50
9-3	Upper Jaw	7.50
9-4	Handle Link Bolts, 4 required, ea.	.75
WS1349	Handle Link Bolt Nuts, 7 required, ea.	.15
9-6	Jaw Links, 8 required, ea.	1.00
9-7	Spindle Sleeve Yoke	3.35
9-8	Spindle Adjusting Nut	.75
9-9	Spindle Support and Operating Block	1.75
9-19	King Bolt and Nut	.50
9-10	Jaw Link Bolt and Nuts (Upper)	.75
9-11	Jaw Link Bolt and Nuts (center and lower), ea.	.75
9-17	Punch	.90
9-18	Die	.90
9-12	Spindle Sleeve Spool	8.50
9-13	Spindle	6.70
9-14	Handle and Spindle Pins, 2 required, ea.	.15
WS786	Punch Set Screw	.10
WS786	Die Set Screw	.10
WS220	Yoke Thumb Screw	.30
9-15	Spindle sleeve stud, 2 required, ea.	.35
WS1347	King Bolt Nut	.25
WS1331	Spindle sleeve spool nut	.10

f. o. b. Rockford, Ill.

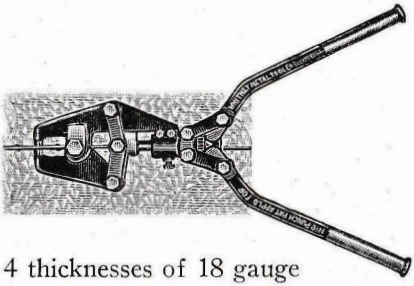
Be Sure the Letter W Is on ALL Your

PUNCHES AND DIES

They Are Made in Our Own Factory and are Genuine

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 9 Universal Button Punch



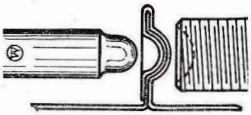
CAPACITY — 4 thicknesses of 18 gauge sheet metal.

The Jaws revolve to any desired position independent of the handles.

All parts Drop Forged and Hardened.

Weight	8½ lbs.
Depth of Throat	1¾ inch
Height of Throat	⅝ inch
Length overall	21½ inch
Price	$33.50
Extra Punches or Dies, each	$ .90

f. o. b. Rockford, Ill.



This is the type of punching done by the button punch.

The button type punch is for indenting several pieces of metal together, used in a number of places in place of punching holes and riveting. Used largely for blow pipe and similar work. The jaws of this punch are set on a 30 degree angle to the left, this to allow for clear vision when working overhead, also to punch in close corners.

SEE DISCOUNT SHEET, PAGES 1 AND 2

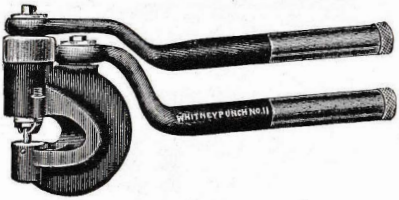
PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No.s 10 and 11 Ball Bearing Punch Parts

10-5	Punch body	$8.35
10-2	Upper handle	1.85
10-3	Lower handle	1.85
10-4	Base, material cast steel	3.75
WS631	Base set screw, 4 required, ea.	.15
10-6	Spindle	6.00
10-7	Handle washer, 2 required, ea.	.15
10-8	Stripper Fingers, 2 required, ea.	.25
WS1806	Ball Bearings (20 in set) 8c ea., per set	.75
WS14	Upper handle screw	.15
10-9	Stop collar	.80
WS14	Lower handle screw	.15
10-10	Dust cap	.70
WS74	Stripper finger set screw, 2 required, ea.	.15
WS786	Die set screw	.10
10-11	Punch coupling nut	.70
WS713	Stop collar set screw, 3 required, ea.	.15
10-16	Wrench, for punch holder	.35

f. o. b. Rockford, Ill.

No. 11 Ball Bearing Punch



The tubular handles are made so extra punches and dies can be carried in the handles, and is so designed the lower handle is in line with the throat which makes it faster when punching light material.

SEE DISCOUNT SHEET, PAGES 1 AND 2

For prices on extra punches and dies, see page 4.

You cannot get away from the fact that Ball Bearings eliminate friction.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Nos. 10 and 11 Ball Bearing Punches

CAPACITY 3/8-INCH THROUGH 1/4-INCH IRON

Weight	8½ lbs.
Depth of throat	1⅝ inches
Height of throat	⅞ inches
Length over all	19 inches

Tool furnished complete with one punch and die of specified size. We furnish any size punch and die from 1/8" to 1/2" by 1/32".

No. 11 PUNCH exact duplicate of No. 10 except tubular handles. See cut ..... page 22

PRICE, either Tool	$25.00
BASE, material steel casting	3.75
RIVETING PUNCHES and DIES, Per Set	2.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 4, for prices on extra Punches and Dies.

ABOVE MACHINES WILL ALSO DRIVE RIVETS

We also furnish a ratchet handle for the above machines, price $12.00 subject to discount, on page 1.

Base furnished with above makes it very practical for bench purposes.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 12 Ball Bearing Punch Parts

12-1	Punch body	$13.00
10-2	Upper handle	1.85
10-3	Lower handle	1.85
10-6	Spindle	6.00
10-7	Handle washer, 2 required, ea.	.15
10-8	Stripper finger, 2 required, ea.	.25
WS1806	Ball Bearings (20 in set), 8c ea., per set	.75
WS14	Upper handle screw	.15
10-9	Stop collar	.80
WS14	Lower handle screw	.15
10-10	Dust cap	.70
WS713	Stripper finger set screw, 2 required, ea.	.15
WS786	Die set screw	.10
10-11	Punch coupling nut	.70
WS786	Stop collar set screw, 3 required, eac.	.10
10-16	Wrench, for punch holder	.35
12-2	Base	3.75
WS631	Set screw, 4 required, ea.	.15

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

For prices on extra punches and dies, see page 4.

To Get Results Use
Genuine Punches and Dies Marked Thus:

TRADE W MARK

There Is a Difference

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 12 Ball Bearing Punch

CAPACITY ⅜-INCH THROUGH
¼-INCH IRON

Weight	11 lbs.
Depth of throat	2 inches
Height of throat	2 inches
Length over all	18 inches

Tool furnished complete with one punch and die of specified size. We furnish any size punch and die from ⅛" to ½" by $\frac{1}{32}$".

PRICE	$30.00
BASE, for bench purposes	3.75
RIVETING PUNCHES and DIES, Per Set	2.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 4 for prices on extra punches and dies.

ABOVE MACHINE WILL ALSO
DRIVE RIVETS

We also furnish a ratchet handle for the above machine, price $12.00 subject to discount on page 1.

Base furnished with above makes it very practical for bench purposes.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 13 Ratchet Handle

Length ..... 19 inches
Weight ..... 2½ lbs.
Price $12.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGE 1

Above ratchet handle can be used in connection with the No. 10, 11, and 12 Ball Bearing Punches.

No. 19 Ratchet Handle

Length ..... 7 inches
Weight ..... 3 lbs.
Price $18.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGE 1

This ratchet handle can be used in connection with the following machines: Nos. 20, 24, 25, 26, 27 and 50.

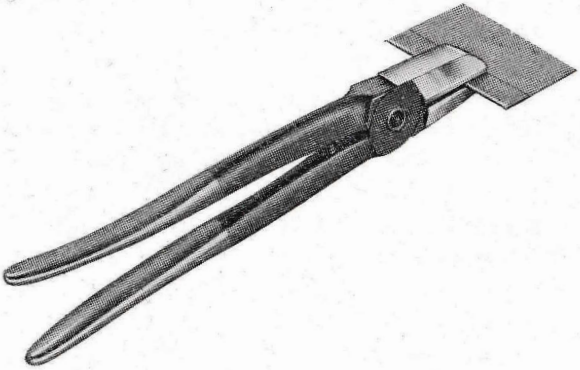
They will ratchet in either direction or can be used neutral.

A gas pipe or round bar can be inserted into the ratchet socket handle No. 19 for additional leverage.

These handles are made of first class material and workmanship is of the best.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Whitney-Jensen No. 42 Hand Seamer



Weight	1¼ lbs.
Length over all	9⅛ inches
Width of jaws	1 in.
Depth of jaws	1¼ in.

Jaws are of hardened steel, and will give you years of service.

Price $4.50

f. o. b. Rockford, Ill.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Nos. 16 and 17 Bench Punch Parts

16-2	Punch Body, No. 16	$26.00
17-1	Punch Body, No. 17	46.00
16-3	Lever Handle	8.00
8-3	Eccentric Bolt, 2 required, ea.	.25
8-4	Cam Pin, 2 required, ea.	.10
8-5	Eccentric Arm Screw	.20
8-6	Side Link, 2 required, ea.	.60
8-7-3	Roller Bearing Spacers, 4 required, ea.	.10
16-4	Eccentric Arm	4.00
8-9	Eccentric Cam, 2 required, ea.	1.70
8-7-1	Roller Bearings (24 in set), 5c ea., per set	.85
8-7-2	Roller Bearing Retainer, 4 required, ea.	.30
16-5	Punch Work Table	6.00
WS612	Work Table Screws, 4 required, ea.	.15
8-12	Eccentric Bolt Nuts, 4 required, ea.	.20
8-7	Roller Bearing Assembly, 2 required, ea.	1.40

All parts for Nos. 16 and 17 interchangeable except punch bodies and punches.

f. o. b. Rockford, Ill.

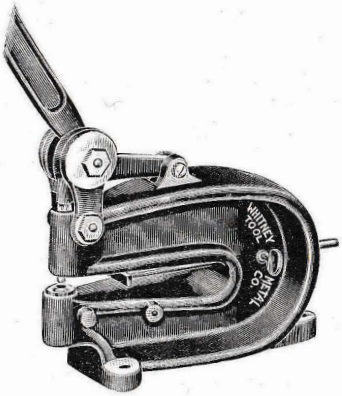
SEE DISCOUNT SHEET, PAGES 1 AND 2

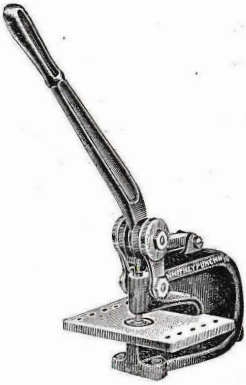
See Page 4 for Prices on Punches and Dies.

Do not insert Slugs in the end of Spindle of Ball Bearing Type Machines as this will break Punches. After the Punch Coupler has been securely tightened, the Punch should Revolve Freely.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Nos. 16 and 17 Bench Punches





	No. 16	No. 17
Capacity, Commercial iron	3/8" thru 1/4"	1/4" thru 1/4"
Weight with work table	32½ lbs.	61 lbs.
Weight without work table	28 lbs.	57 lbs.
Depth of throat	3½ inches	6¼ inches
Height of throat	3/8 inches	½ inch
Length of Handle	22 inches	22 inches

Tools shipped with three punches and dies; unless specified we ship $\frac{7}{32}''$, $\frac{9}{32}''$, $\frac{11}{32}''$.

Stock sizes for the No. 16 are from $\frac{1}{8}''$ to $\frac{9}{16}''$ by $\frac{1}{32}''$.

Stock sizes for the No. 17 are from $\frac{1}{8}''$ to $\frac{9}{16}''$ by $\frac{1}{32}''$.

Price No. 16 with Work Table	$46.00	$66.00
Price No. 16 without Work Table	40.00	60.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 4 for Prices on extra Punches and Dies.

These machines are ideal Bench Punches, having liberal throat clearance; very powerful; operator works in front of machine; convenient table has holes tapped for 1/4"x20 machine screws and is machined accurately on three sides and surface; size of table, 6"x8".

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 20 Ball Bearing Punch Parts

20-1	Punch Body	$24.00
20-3	Spindle	13.35
20-12	Operating handle	3.00
20-6	Base	5.00
WS73	Base binding screw	.60
WS641	Base set screw, 2 required, ea.	.15
20-10	Stop collar	2.00
20-11	Punch Coupling Nut	1.25
20-13	Stripper finger, 2 required, ea.	.30
20-4	Dust cap	1.65
WS1807	Ball bearings (32 in set), 12c ea., per set	.90
10-7	Handle Washer	.15
WS785	Die set screw	.15
WS14	Handle Washer screw	.15
WS785	Stop collar set screw, 3 required, ea.	.15
WS1935	Wrench, for punch holder	.80
WS1335	Base set nut	.10

f. o. b. Rockford, Ill.

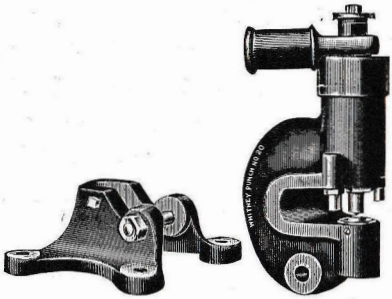
SEE DISCOUNT SHEET, PAGES 1 AND 2

For prices on extra punches and dies, see page 4.

Ball Bearing Punches very often pay for themselves on the first job.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 20 Ball Bearing Punch



CAPACITY ½-INCH THROUGH
½-INCH IRON

Weight	20 lbs.
Depth of Throat	2 inches
Height of Throat	1⅜ inches

Tool furnished complete with one punch and die of specified size. We furnish any size punch and die from $\frac{3}{16}''$ to $\frac{11}{16}''$ by $\frac{1}{32}''$.

PRICE	$50.00
BASE, for bench purposes	5.00
RIVETING PUNCHES and DIES, Per Set	2.50

f. o. b. Rockford, Ill.

Bevel Dies to compensate the bevel on I-Beam should be used when punching in flange of I-Beam.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 4 for Prices on Extra Punches and Dies.

ABOVE MACHINE WILL ALSO DRIVE RIVETS

It is made of alloy steel and heat treated throughout.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Nos. 24 and 25 Ball Bearing Punch Parts

24-2	Punch Body, No. 24	$23.50
25-1	Punch Body, No. 25	66.00
24-3	Spindle	16.00
20-12	Operating Handle	4.00
24-5	Dust Cap	1.65
24-4	Ball Race Sleeve	11.35
WS631	Ball Race Sleeve Set Screw, 2 required, ea.	.15
24-6	Stripper Finger, 2 required, ea.	.70
20-10	Stop Collar	2.00
10-7	Handle Washer	.15
WS16	Handle Washer Screw	.15
WS785	Stop Collar Screw, 3 required, ea.	.15
WS1807	Ball Bearings (38 in set), 12c ea., per set	1.00
20-11	Punch Holder	1.25
WS1935	Wrench for Punch Holder	.80
WS1335	Stripper Finger Jam Nut, 2 required, ea.	.10
WS1354	Ball Race Sleeve Set Screw Nut	.25

All parts for Nos. 24 and 25 punches interchangeable except punch bodies.

f. o. b. Rockford, Ill.

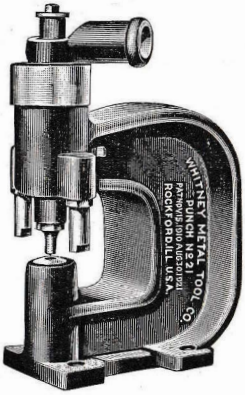
SEE DISCOUNT SHEET, PAGES 1 AND 2

For prices on extra punches and dies, see page 4.

Do not insert Slugs in the end of Spindle of Ball Bearing Type Machines as this will break Punches. After the Punch Coupler has been securely tightened, the Punch should Revolve Freely.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Nos. 24 and 25 Ball Bearing Punches



	No. 24	No. 25
Capacity, Commercial iron	½" thru ⅜"	⅜" thru ⅜"
Weight	45 lbs.	120 lbs.
Depth of throat	3½ inches	8 inches
Will punch in center of	7 inches	16 inches
Height of throat	4 inches	4 inches

Tools furnished with one punch and die of specified size.
Stock sizes are from $\frac{3}{16}$" to $\frac{11}{16}$" by $\frac{1}{32}$".

PRICE	$60.00	$100.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 4 for prices on extra punches and dies.

Punch body is made of special steel casting.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Nos. 26 and 27 Deep Throat Punch Parts

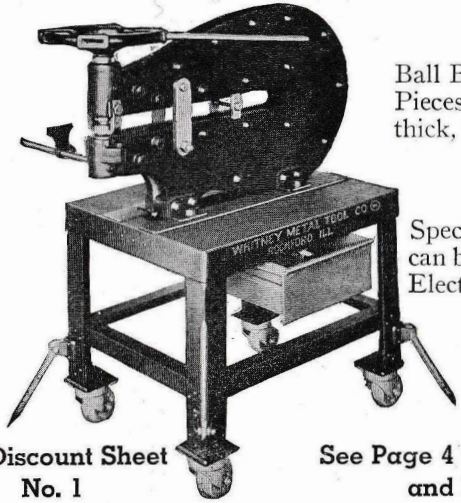
26-4	Spindle and Sleeve Assembly	$ 24.00
27-1	Punch Frame No. 27, complete	100.00
26-2	Punch Head	30.00
26-1	Punch Frame No. 26, complete	90.00
26-3	Die Bolster Plate	5.00
26-4	Bolster Plate Holder Head	25.00
WS65	Bolster Plate Cap Screws, 2 required, ea.	.15
26-6	Spindle	20.00
50-2	Ball Race Sleeve	12.00
WS631	Spindle Ball Race Sleeve Set Screws, 2 req., ea.	.15
WS1333	Spindle Ball Race Sleeve Set Screw Nuts	.15
20-4	Dust Cap	1.65
26-7	Stripper Finger, 2 required, ea.	1.50
26-8	Stripper Finger Shoulder Screws, 2 required, ea.	.20
20-10	Stop Collar	2.00
WS785	Stop Collar Screws, 3 required, ea.	.15
10-7	Operating Hand Wheel Washer	.15
WS16	Operating Hand Wheel Washer Cap Screw	.15
WS1807	Ball Bearings (30 in set), 12c ea., per set	.90
40-17	Punch Coupling Nut	2.00
26-11	Spindle Ring Stop Collar	1.00
26-12	Tie Rod Upper Pin	.50
26-13	Tie Rod Lower Bolt	2.00
26-14	Tie Rod Arm, 2 required, ea.	2.00
26-15	Depth Gauge, complete	5.00
26-16	Side Gauge, complete	4.00
26-17	Hand Wheel	9.00
50-11	Hand Wheel Extension Flat Bar Handle	2.00
WS628	Bolster Plate Die Set Screw	.15
WS787	Reduction Collar Die Set Screw	.10
26-5	Bolster Plate Washer, 2 required, ea.	.15
26-10	Spindle Stop	.35
26-21	Angle Iron Base, complete	70.00
26-23	Punch Adaptor for No. 20 Punches	6.50
26-24	Die Adaptor for No. 40 Die	4.00
26-25	Die Adaptor for No. 20	4.00
26-26	Die Adaptor for No. 10 Die	4.00
WS787	Die Adaptor Set Screw	.10

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Nos. 26 and 27 Deep Throat Punches



Ball Bearing Spindles, two Pieces Steel Plate one inch thick, Hot Riveted Frame

Special Punches and Dies can be furnished for Electrical Receptical

See Discount Sheet No. 1

See Page 4 for Punches and Dies

The No. 26 has 18 in. Throat Depth

Capacity Without Tie Plate, 2 in. hole, $\frac{3}{32}$ iron.
With Tie Plate in position, ½ in hole, ⅜ iron.

Weight
With Truck Base ..... 505 lbs.
Without Truck Base ..... 300 lbs.

Price
With Truck Base $240.00
Without Truck Base 170.00

The No. 27 has 24 in. Throat Depth

Capacity Without Tie Plate, 2 in. hole, 16 gauge iron.
With Tie Plate in position, ½ in. hole, ⅜ in. iron.

Weight
With Truck Base ..... 608 lbs.
Without Truck Base ..... 400 lbs.

Price
With Truck Base $280.00
Without Truck Base 210.00

Either Tool equipped with a one inch Punch and Die.

f. o. b. Rockford, Illinois

NOTE:—Throat Depth with Tie Plates in position, 7″.

A split Punch Coupler is required on all Punches over one inch in diameter. If No. 20 Punches and Dies are to be used it is necessary to purchase adaptors. See part list.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 28 Foot Press Parts

28-1	Frame	$50.00
29-2	Ram	15.00
28-3	Bolster plate	10.00
28-4	Counterweight	2.50
28-6	Foot treadle casting and arm	2.50
28-7	Foot treadle adjusting casting, pair	2.00
28-10	Ram operating lever	10.00
28-11	Treadle yoke	3.50
28-12	Treadle connecting links, 2 required, each	2.00
28-14	Ram adjusting eye bolt and lock nut	1.50
28-15	Front cover plate	2.00
28-18	King pin	1.50
28-19	Foot treadle hinge pin	.75
28-20	Treadle yoke pin	.50
WS2129	Counterweight bolts, 2 required, each	.35
28-21	Connecting link bolts (upper or intermediate), each	.70
28-22	Connecting link bolt (lower)	.70
28-5	Foot treadle bar	5.00
28-34	Angle iron stand	25.00
WS93	Bolster plate screw, 2 required, each	.75
29-5	Punch holder	2.00
28-28	Front cover plate screw, 2 required, each	.25
28-13	Treadle connecting links, small	2.50
28-85	Adjustable Stripper, complete	4.00
58-20	Ram slide gib, L.H.	6.25
58-21	Ram slide gib, R.H.	6.25

Extra Parts

28-32	Side gauges	$ 3.40
WS31	Side gauge bolts	.15
28-33	Bolster plate gauges with bolts, 2 required, each	1.00
28-30	Depth gauge casting	1.50
28-31	Depth gauge bar	.90
28-41	Punch adaptor for No. 20 punches, 7/8" I.D.	6.50
26-25	Die adaptor for No. 20 dies, 1¼" I.D.	4.00
28-26	Punch adaptor for No. 8—Imperial punches, ½" I.D.	6.50
26-24	Die adaptor for No. 40, 2⅛" I.D.	4.00
28-16	Wearing plates, 5 required ⅛" thick, ea.	1.35
28-17	Wearing plates, 2 required 1/16" thick, ea.	1.25

No. 29 Foot Press Parts

29-1	Frame	$80.00
29-3	Ram operating lever	16.00
28-11	Treadle yoke	3.50
28-12	Treadle connecting link	2.00
28-13	Treadle connecting link	2.50
28-5	Foot treadle bar	5.00

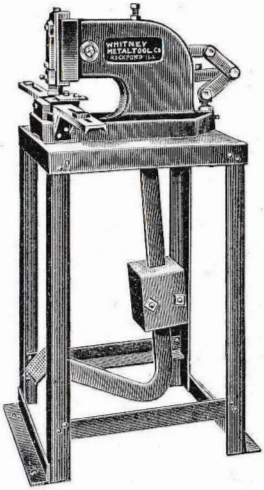
See No. 28 Foot Press Parts for other part prices as these are all interchangeable with the No. 29.

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 28 and 29 Foot Presses



Be sure to state shank diameter of punch and O. D. of die when ordering punches and dies.

	No. 28	No. 29
Capacity 2″ Hole in 16 Gauge		
Stroke of Ram	⅞″	⅞″
Ram Adjustment	¾″	¾″
Punch Hole in Ram	1″	1″
Depth of Throat	7″	10″
Height of Throat	4¼″	4¼″
Slug Clearance Hole	2¼″x4½″	2¼″x4½″
Weight, Net	345 lbs.	385 lbs.
Shipping Weight	385 lbs.	430 lbs.
Price of machine with T Bolster Plates, Stripper Plate, one side and one depth gauge, No. 8 Imperial Punch Adaptor, No. 20 Die Adaptor and ½″ Punch and Die as regular equipment	$117.00	$160.00
Price with above equipment with Double Angle Notching Punch and Die	$142.00	$185.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 5 for prices on extra punches and dies.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 58 Deep Throat Foot Press Parts

58-1	Frame	$85.00
B29-2	Ram	15.00
A28-3	Bolster plate	10.00
58-3	Counterweight	5.00
26-6-2	Treadle toe plate	2.50
B-58-2	Ram lever	16.00
A28-10	Treadle yoke	3.50
28-12	Connecting links, large, (2 required), each	2.00
28-13	Connecting links, small, (2 required), each	2.00
28-14	Ram adj. eye bolt	1.50
WS1388	Ram adj. eye bolt nut	.15
58-4	Ram lever (king) pin	3.00
58-9	Foot treadle hinge pin	1.00
58-10	Treadle yoke pin	.75
28-16	Wearing plates, 5 required 1/8" thick, each	1.35
28-17	Wearing plates, 2 required 3/16" thick, each	1.25
WS2129	Counterweight bolts, (2 required), each	.35
28-21	Connecting link bolts, (2 required, upper and inter.), each	.70
28-22	Connecting link bolt (lower)	.70
58-6	Vertical foot lever	7.00
28-28	Front cover plate screws, (2 required), each	.25
58-13	Angle iron stand (complete)	30.00
58-8-1	Foot treadle arm	5.00
58-23	Adj. stripper (complete)	4.00
WS93	Bolster plate screw, (2 required), each	.75
28-29	Bolster plate screw washer, (2 required), each	.20
58-7	Foot treadle tie brace	3.50
58-20	Ram Slide, L.H.	6.25
58-21	Ram Slide, R.H.	6.25
58-22	Shim	.25
WS1626	Dowl pin	.10
58-5	Ram lever pin bushing	1.00
29-5	Punch holder	5.00

EXTRA PARTS

26-24	Die adaptor for No. 40 dies	$ 4.00
58-14	No. 8 Imperial punch adaptor	6.50
58-15	No. 20 punch adaptor	6.50
58-16	No. 28 punch adaptor	6.50
26-25	Die adaptor for No. 20 dies	4.00
28-23	Notching punch	10.00
28-24	Notching die	15.00
28-32	Side gauge	3.40
WS31	Side gauge bolts, (4 required), each	.15
WS2001	Bolster plate gauge W/bolts, (4 required), each	1.00
28-30	Depth gauge casting	1.50
58-12	Depth gauge bar	1.00

NO. 68 DEEP THROAT FOOT PRESS PARTS

C68-1	Frame	$110.00
A68-3	Ram lever	22.00
A68-4	Vertical foot lever	7.00
A68-5	Pedal bar	6.00
A68-6	Pedal bar tie brace	3.50
C68-8	Angle iron stand	50.00

EXTRA PARTS

68-5	Depth gauge bar	$ 1.50

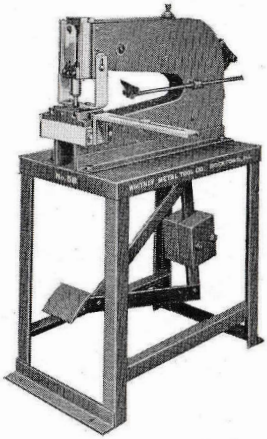
See No. 58 Foot Press Parts for other part prices as these are all interchangeable with the No. 68.

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Nos. 58 and 68 Deep Throat Foot Presses



Be sure to state shank diameter of punch and O. D. of die when ordering punches and dies.

	No. 58	No. 68
Capacity 2″ Hole in 16 Gauge	1″	1″
Stroke of Ram	¾″	¾″
Ram Adjustment	1″	1″
Punch Hole in Ram	18″	24″
Depth of Throat	5¾″	5¾″
Height of Throat	3″x5″	3″x5″
Slug Clearance Hole	490 lbs.	533 lbs.
Weight, Net	525 lbs.	585 lbs.
Shipping Weight		
Price of machine with T Bolster Plates, Stripper Plate, one side and one depth gauge, No. 8 Imperial Punch Adaptor, No. 28 Punch Adaptor, No. 20 Die Adaptor and ½″ Punch and Die as regular equipment	$197.00	$233.00
Price with above equipment with Double Angle Notching Punch and Die	$222.00	$258.00

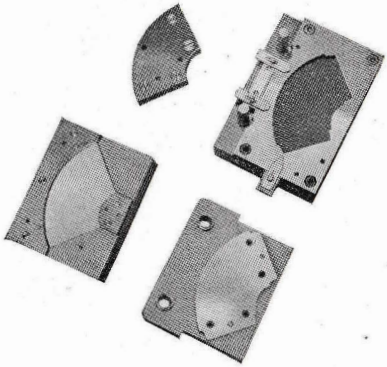
f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 5 for prices on extra punches and dies.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Elbow Cheek Blanking and Forming Dies



Forming Die

Blanking Die

First Operation:
Elbow Cheek
Blanked Out

Second Operation:
Elbow Cheek Flanged
Both Sides

Available in 3", 3¼", 3⅜", 3½", 3¾", 4" sizes.

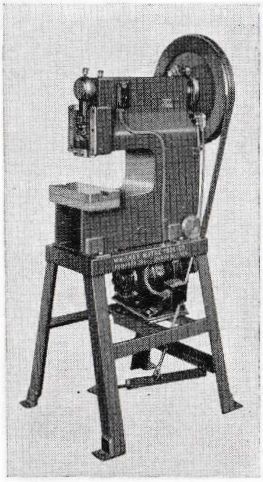
Can be used with the—

No. S58 and 68 Foot Presses

No. S129 and 130 Punch Presses

Prices Quoted on Application

Nos. 129 and 130 Punch Presses



Be sure to state shank diameter of punch and O. D. of die when ordering punches and dies.

	No. 129	No. 130
Capacity	10 ton	10 ton
Size of main shaft SAE steel	1¾"	1¾"
Length of stroke	1¼"	1¼"
Punch hole in ram	1"	1"
Length of ram	7½"	7½"
Width of ram	5½"	5½"
Stroke adjustment	1¾"	1¾"
Depth of throat	12"	18"
Die space with stroke down, adjustment up	4"	4"
Size of bolster plate	1¼"x6x12"	1¼"x6x12"
Size of fly wheel	20"	20"
Weight of fly wheel	150 lbs.	150 lbs.
Speed of fly wheel	135	135
Height from floor to center of shaft	52"	52"
Weight	710 lbs.	1000 lbs.
Polyphase motor, 1 H.P., 1200 R.P.M., 60 cycle 220 volt, type Q, V belt drive	— Same —	
Price with motor	$536.00	$645.00
Without motor	465.00	575.00

f. o. b. Rockford, Ill.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Multiple Punch Parts

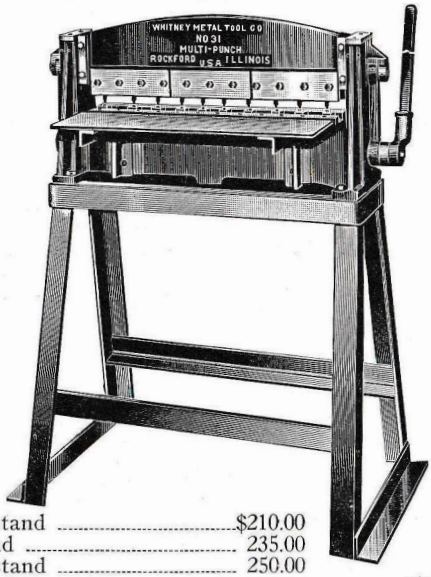
31	32	33		31	32	33
B31-1	B32-1	B33-1	Lower Base	$105.00	$115.00	$125.00
B31-2	B32-2	B33-2	Upper Ram	65.00	75.00	85.00
A31-3	A32-3	A33-3	Bolster Plate	22.00	25.00	30.00
A31-4	A32-4	A33-8	Die Plate Holder	5.00	6.00	7.00
A31-5	A31-5	A31-5	Side Links	2.00	2.00	2.00
A31-6	A31-6	A31-6	Punch Holder	1.75	1.75	1.75
A31-7	A31-7	A31-7	Die Holder	1.75	1.75	1.75
A31-8	A32-5	A33-4	Cam Shaft	26.00	28.00	30.00
A31-9	A31-9	A31-9	Angle Iron Work Table Support	1.00	1.00	1.00
A31-10	A32-9	A33-10	Punch Holder Plates	5.00	7.00	8.00
A31-11	A32-11	A31-11	Side Link Wrist Pin	1.25	1.25	1.25
A31-12	A31-12	A31-12	Slide Top Plate Support	1.25	1.25	1.25
A31-13	A31-13	A31-13	Gib, 2 required, ea.	1.00	1.00	1.00
A31-14	A31-14	A31-14	Ram Guide Plate	1.00	1.00	1.00
A31-15	A31-15	A31-15	Cam Shaft Collar	1.00	1.00	1.00
A31-16	A32-6	A33-5	Stripper Plate	5.00	6.00	7.00
A31-18	A31-18	A31-18	Punch and Die Set Screw Wrench	.50	.50	.50
A31-19	A32-7	A33-6	Bench Stand	35.00	37.00	39.00
A15-5	A15-5	A15-5	Handle	4.00	4.00	4.00
A31-20	A32-8	A33-7	Work Table	4.00	5.00	6.00
Standard	Standard	Standard	Ram Guide Pin Screw	.20	.20	.20
Standard	Standard	Standard	Gib Adjusting Screw	.20	.20	.20
Standard	Standard	Standard	Die Plate Holder Screw	.30	.30	.30
Standard	Standard	Standard	Punch Plate Holder Screw	.30	.30	.30

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Multiple Punches Nos. 31, 32, 33



Price No. 31 without floor stand	$210.00
Price No. 31 with floor stand	235.00
Price No. 32 without floor stand	250.00
Price No. 32 with floor stand	275.00
Price No. 33 without floor stand	290.00
Price No. 33 with floor stand	325.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

SPECIFICATIONS	No. 31	No. 32	No. 33
Length overall	29″	36″	42″
Width	12″	12″	13″
Height	13″	14″	15″
Distance between housing	24½″	31″	37″
Up and down stroke	⅝″	⅝″	⅝″
Front table size	6″x25″	6″x31″	6″x37″
Weight	280 lbs.	325 lbs.	375 lbs.

Capacity ten ¼″ holes in 18 gauge with one stroke of operating handle.

Standard equipment consists of 10 round punches and dies of specified size, 10 punch holders, 10 die holders, and one removable bolster plate. Stock sizes of punches and dies are from $\frac{1}{16}$″ to ¼″ by $\frac{1}{64}$″. No. 5 type punches and dies.

Made of very best material throughout, accurately machined. Suitable for production machines. Carried in stock.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 40 Ball Bearing Punch Parts

40-1	Punch body	$74.00
40-2	Base	11.50
40-3	Spindle	26.65
40-4	Ball race sleeve	16.00
WS653	Ball race sleeve set screw, 2 required, ea.	.15
40-17	Punch coupling nut	2.00
40-5	Ratchet dog	2.00
40-6	Operating handle	4.00
40-7	Ball retainer	8.00
40-8	Ratchet head	9.35
WS2051	Base binding screw	.80
WS657	Base set screw, 2 required, ea.	.15
WS654	Die set screw, 2 required, ea.	.15
WS718	Ratchet head screw, 3 required, ea.	.15
40-9	Handle washer	.15
WS46	Handle washer screw	.15
24-6	Stripper finger, 2 required, ea.	.45
WS1808	Ball Bearings (62 in set), 12c ea., per set	1.80
40-10	Wrench, for punch holder	1.40
40-11	Carrying handle	5.00
40-13	Ratchet dog spring	.25
WS1261	Ratchet dog screw	.10

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

For prices on extra punches and dies, see page 5.

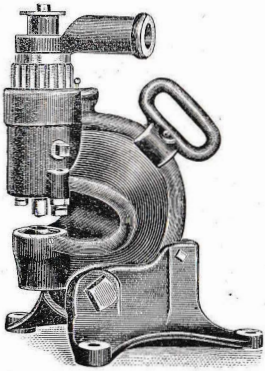
To Get Results Use
Genuine Punches and Dies Marked Thus:

TRADE W MARK

There Is a Difference

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 40 Ball Bearing Punch



CAPACITY 5/8-INCH THROUGH
5/8-INCH IRON

Weight	87 lbs.
Depth of throat	3½ inches
Height of throat	2 inches

Tool furnished complete with one punch and die of specified size. We furnish any size punch and die from 3/8" to 1" by 1/16".

PRICE, without base	$152.00
BASE, for bench purposes	11.50
RIVETING PUNCHES and DIES, Per Set	3.30

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 5, for prices on punches and dies.

Drop Forged Punch Body.

Bevel Dies to compensate the bevel on I-Beam should be used when punching in flange of I-Beam.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

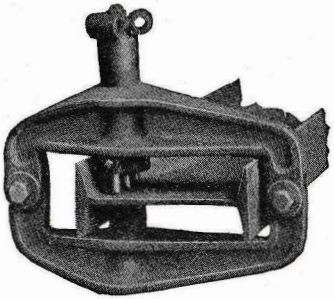
No. 40-A Ball Bearing Punch Parts

40A-1	Frame, punch side	$16.00
40A-2	Frame, die side	16.00
40A-3	Hinge bolt, 2 required, each	1.35
50-2	Ball race sleeve	15.00
WS625	Ball race sleeve set screw, 2 required, each	.15
24-3	Spindle	14.00
WS1807	Ball bearings (32 in set), 12c ea., per set	.90
50-4	Operating handle	3.00
10-7	Operating handle washer	.15
WS16	Operating handle washer screw	.15
40A-4	Stripper finger, 2 required, each	.80
WS601	Die set screw	.15
20-11	Punch coupling nut	1.25
20-4	Dust cap	1.65
20-10	Stop collar	2.00
WS785	Stop collar screw, 3 required, each	.15
WS1935	Wrench, for punch holder	.80
WS1711	Hinge bolt washer	.10

No. 40-B Ball Bearing Punch Parts

40B-1	Frame, punch side	$48.00
40B-2	Frame, die side	48.00
40B-3	Hinge bolt, 2 required, each	1.35
40-4	Ball race sleeve	16.00
WS653	Ball race sleeve screw, 2 required, each	.15
40-3	Spindle	26.65
WS1808	Ball bearings (62 in set), 12c ea., per set	1.80
40-17	Punch holder	2.00
40-6	Socket handle	4.65
40-9	Handle washer	.15
WS46	Handle washer, screw	.15
WS67	Stripper finger, 2 required, each	.45
40-5	Ratchet dog	2.00
40-8	Ratchet head	9.35
WS630	Die set screw	.15
WS1261	Ratchet screw, 3 required, each	.10
40-10	Wrench, for punch holder	1.40
WS1341	Hinge bolt nut	.15
WS1335	Stripper finger nut	.10
WS1713	Flat washer	.10

Nos. 40-A and 40-B Ball Bearing Punches



40-A Capacity 3/8-Inch Hole in 3/8-Inch Iron

Weight .....57 lbs.

Will punch in center of 6″ I-Beam.

This machine is shipped complete with one punch and die of specified size. Stock size punches and dies from 1/4″ to 9/16″ by 1/32″.

Price $75.00

40-B Capacity 1-Inch Hole in 1/2-Inch Iron

Weight .....137 lbs.

Will punch in center of 12″ I-Beam.

This machine is shipped complete with one punch and die of specified size. Stock size punches and dies from 3/8″ to 1″ by 1/16″.

Price $165.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 5, for prices on extra punches and dies.

Frame is made of cast steel, all wearing parts are hardened.

If the I-Beam is fastened at each end, remove one hinge bolt to open punch.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Rivet Sets

WHITNEY rivet sets are drop-forged from the highest grade steel available, shaped and made to satisfactorily fill every requirement of hard service and abuse. Specially adapted for workers in copper, brass, sheet steel, etc. THE SAME DEGREE OF ACCURACY AND WORKMANSHIP USED IN ALL WHITNEY TOOLS WILL BE FOUND IN WHITNEY RIVET SETS.

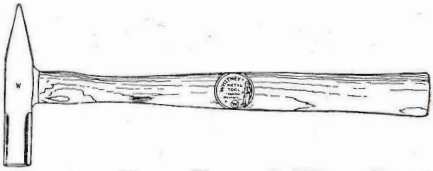
Size	Size Hole, Inches	Size Drill, Gauge No.	For Iron Rivets Lbs.	For Copper Rivets Nos.	For Copper Rivets Ins.	Price Each
00	5/16	5/16	14 & 16	.....	.....	$1.10
0	9/32	9/32	10 & 12	5	1/4	1.10
1	15/64	15/64	7 & 8	6	7/32	.85
2	.2130	3	6	7	3/16	.85
3	.1910	11	4 & 5	8	5/32	.70
4	.1660	19	3 & 3½	9	9/64	.70
5	.1495	25	2 & 2½	10 & 11	1/8	.55
6	.1405	28	1½ & 1¾	12	7/64	.55
7	.1285	30	1 & 1¼	13 & 14	3/32	.45
8	.1100	35	10 & 12	15	3/32	.45
			Oz.			

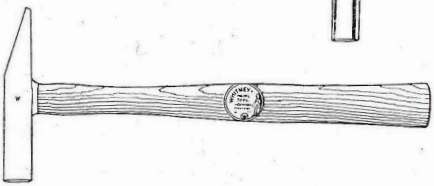
f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Hammers





Drop Forged Alloy Steel, Highly Finished Head, Hickory Handle

No.	Face Size	Weight Oz.	Price Each	No.	Face Size	Weight Oz.	Price Each
0	9/16"	4	$1.60	0	9/16"	4	$1.60
2	3/4"	10	1.60	2	3/4"	10	1.60
3	13/16"	12	1.80	3	13/16"	12	1.80
4	7/8"	15	1.80	4	7/8"	15	1.80

Handles Only .....40c Each

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Beveled Riveting Hammers

Square Face Setting Hammers

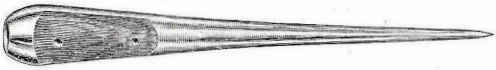
DESIGN:—Whitney hammers are uniformly balanced for perfect striking power and tested beyond the average physical strength. Special shoulder for handle protection, longer bearing for perfect handle fit and decisively more clearance between hammer head and handle. Features found only in WHITNEY hammers.

MATERIAL:—Head, drop forged alloy steel properly heat treated and highly finished. Face will not chip or become mushroomed. The handles are of select second growth hickory air dried and are shaped to the hand for comfort and accurate striking power.

Extra handles with wedge as regular equipment. No fitting required. State size of hammer when ordering handles.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Scratch Awl — A1 Drop Forged



Length	9 inches
Weight	6 oz.
Price, each	$1.25

Made from special high grade steel.

This is not only a Scratch Awl, but a drift pin as well for lining up holes.

Made right—will take lots of punishment.

Whitmetal Scratch Pin

Diameter	3/8 inch
Length	8 inches
Weight	3 oz.
Price, each	$ .40
Price, in lots of five	1.70
Price, in lots of twelve, each	.30

These Scratch Pins are made from high grade tool steel.

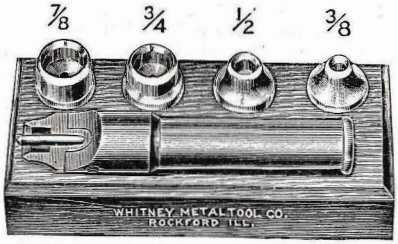
f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Do not insert Slugs in the end of Spindle of Ball Bearing Type Machines as this will break Punches. After the Punch Coupler has been securely tightened, the Punch should Revolve Freely.

Changeable Handle Hollow Punch

Self Centering Locating Spring Point



Hollow Punch Set No. 1

Complete in wood case and handle with punch.

Bit sizes	3/8"	1/2"	5/8"	3/4"	7/8"
Prices, per single bit	$ .60	$ .75	$ .90	$1.10	$1.25

Per set.....$6.00 Handle only.....$2.10

Centering Point and Spring..... .50

Hollow Punch Set No. 2

Complete in wood case and handle with punch.

Bit sizes	1"	1 1/4"	1 1/2"	1 3/4"	2"
Prices, per single bit	$1.50	$1.65	$2.00	$2.30	$2.70

Per set.....$14.00 Handle only.....$4.20

Centering Point and Spring..... .50

Hollow Punch Set No. 3

Complete in wood case and handle with punch.

Bit sizes	2 1/4"	2 1/2"	2 3/4"	3"
Prices, per single bit	$3.50	$3.85	$4.20	$4.50

Per set.....$19.00 Handle only.....$4.20

Centering Point and Spring..... .50

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f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

One Piece Hollow Punch No. 4

Self Centering Spring Point

Drop Forged

Diameter of Handle	1⅜ inches
Length overall	4¾ inches
Diameter of Spring Plunger	¼ inch

Can be furnished in sizes from ⅞" to 1⅝" by $\frac{1}{16}$" variation.

Price ⅞" to 1¼"	$3.50
Price 1¼" to 1⅝", inclusive	3.75
Centering Point and Spring	.50

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Be Sure the Letter TRADE W MARK **Is on ALL Your**

PUNCHES AND DIES

They Are Made in Our Own Factory and Are Genuine

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Octagon Handle Solid Punch Set No. 0

Above includes ten punches to set in sizes from 1/8" to 13/32" by 1/32" variation.

Made from high grade tool steel.

Price per set	$5.85
One or more, each	.60
In lots of 12 or more	.50

Round Handle Solid Punches No. 00

Diameter of handle	5/8 inch rd.
Length overall	6 inches
Price, each	$ .65
Price, in lots of 12 or more, each	.50

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Furnished and carried in stock, sizes from 1/8" to 1/2" by 1/32" variation.

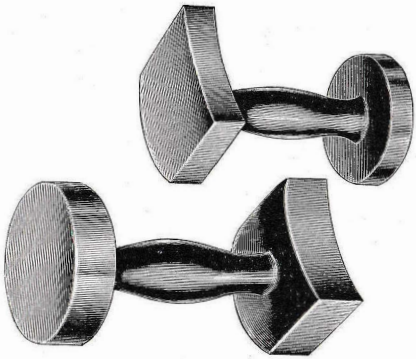
Ordinary punches of this kind are made from octagon shape steel, but the above punches are made from 5/8" round steel. You will be surprised how well balanced and the different grip when using these punches.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Dolly Bars

Drop Forged, Hardened,

All Surfaces Machined



Price No. 21 small Dolly Bar	$3.35
Price No. 22 large Dolly Bar	5.00
Weight small Dolly Bar	3 lbs.
Weight large Dolly Bar	7½ lbs.

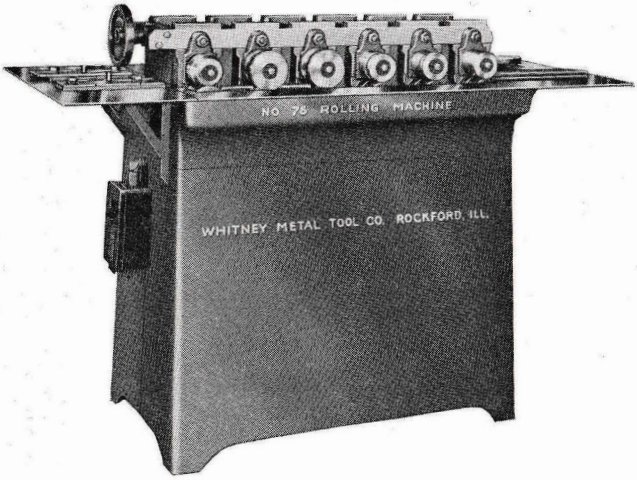
f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

The large Dolly is intended for the shop and the small one for the tool box. They can be used in seven different positions and are so designed they will not roll when laid lengthwise on the bench.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 75 Duplex Rolling Machine



Speed of rolls	38 ft. per min.
Capacity	16 and 18 ga. sheets
Height	44 inches
Width	22 inches
Length	50 inches
Weight	1200 lbs.
Spindles, diam.	1⅜ inches
Motor	2 H.P., 1800 R.P.M., 60 cycle, 3 phase 220-440 volt

Price with one set of rolls for rolling Pittsburgh Locks	$1075.00
Set of rolls for Pittsburgh Locks	145.00
Set of rolls for Acme Locks	145.00
Set of rolls for Drive Cleats	145.00
Set of rolls for Standing Seams	215.00

f. o. b. Rockford, Ill.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 2 Shear Parts

2-1	Lower handle jaw	$9.00
2-2	Movable shear jaw	9.00
2-3	Operating handle	4.00
2-4	Support strap	.75
2-5	Shear blade hinge bolt with nuts	.75
2-6	Operating handle hinge bolt with nuts	.60
2-8	Lower shear blade	1.50
2-9	Movable shear blade	1.50
WS1044	Shear blade screw, 4 required, each	.20
WS785	Shear blade adjusting set screw, 2 required, each	.15
WS1347	Hinge bolt nuts, 4 required, each	.25

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

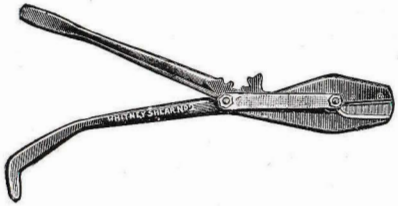
To Get Results Use
Genuine Punches and Dies Marked Thus:

TRADE W MARK

There Is a Difference

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 2 Shear



CAPACITY ⅛-INCH THICKNESS
OR LIGHTER

Weight ..... 12 lbs.
Price $20.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

The construction of this shear makes it possible to cut just as easy at the extreme point of blade as it will close to the hinge bolt on account of our patented eccentric gear. Note the leverage. Will slit large sheets.

Drop forged, heat treated steel. Inserted tool steel shearing blades. Extra blades can be furnished. You cannot go wrong buying one of these shears.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 3 Bench Shear Parts

3-1	Shear base	$18.65
3-2	Movable shear arm casting	11.35
3-3	Movable arm hinge bolt	1.35
3-4	Operating handle	6.65
3-5	Lower shear blade	2.00
3-6	Upper shear blade	2.00
3-7	Operating handle hinge bolt	1.35
3-8	Support strap	2.00
3-9	Cutting die (state size), pair	1.10
WS1044	Shear blade screw, 6 required, each	.20
3-10	Gauge casting	1.50
3-11	Gauge bar	.40
WS1936	Gauge thumb screw	.20
WS785	Die set screw	.15
WS787	Gauge bar lock screw	.10
WS1348	Shear blade hinge bolt nut	.30
WS1347	Operating handle bolt nut	.25
WS1650	Operating handle stop pin	.15

f. o. b. Rockford, Ill.

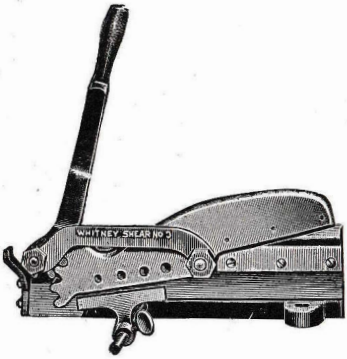
SEE DISCOUNT SHEET, PAGES 1 AND 2

Here is a quotation from a firm in Quincy Point, Mass., which writes:

"Will say that we consider your Punches the very best of the kind on the market and we have a number of them in constant use."
Signed by the President.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 3 Bench Shear



Capacity 1/8" thickness or lighter. Will cut rounds 1/8", 3/16", 1/4", 5/16".

Weight	25 lbs.
Length cutting blades	5 inches
PRICE	$45.00
Extra cutting blades, each	2.00
Extra cutting dies, state size	.55

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Do not insert Slugs in the end of Spindle of Ball Bearing Type Machines as this will break Punches. After the Punch Coupler has been securely tightened, the Punch should Revolve Freely.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 6 Slitting Shear Parts

6-1	Frame	$15.00
6-2	Movable blade holder	5.50
6-3	Outer bearing plate	5.50
WS33	Plate screws, 2 required, each	.20
6-4	Movable shear blade	2.00
6-5	Lower shear blade	2.00
WS1067	Blade screw, 2 required, each	.20
WS701	Lower blade adjustable screw, 2 required, each	.20
6-6-1	Eccentric handle	7.00
6-6-2	Eccentric handle cover plate	.50
6-10	Roller bearing assembly, 2 required, each	3.90
6-8	Pivot pin	.40
6-9	Pivot pin roller	.50
6-10-1	Roller bearings, 50 required, 10c ea., per set	1.75
6-10-2	Roller retainers, 4 required, each	.40
6-10-3	Roller retainer spacers, 6 required, each	.20
6-13	Roller cover plate, 2 required, each	1.50
WS1141	Cover plate screws, 6 required, each	.10
6-14-1	Flat bar handle	1.50
6-15	Gauge head	1.80
6-18	Gauge bar	.40
WS785	Gauge bar lock screw	.15
WS1936	Gauge thumb screw	.20
WS1932	Self closing oil hole covers, 2 required, each	.20
6-16	Shear work table	6.00
6-17	Stop guide	.50
W443	Stop guide screw	.15
WS14	Shear table cap screw, 2 required, each	.15

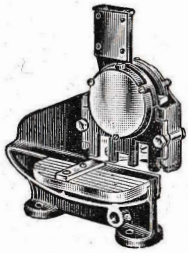
f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

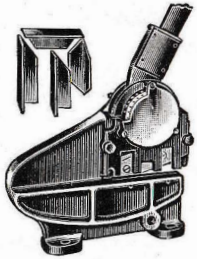
PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 6 Slitting Shear

Roller Bearing



With Table



Without Table

CAPACITY, $\frac{3}{16}$" THICKNESS

Weight	23½ lbs.
Price, without table or gauge	$45.00
Gauge	2.50
Work table	6.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Cutter blades 4¼" in length. Largest Mitre which can be cut is 1½"x1½"x⅛" angle or smaller.

Will slit sheets and cut off flats. Inserted adjustable shear blades, easily operated and durable.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 36 Slitting Shear Parts

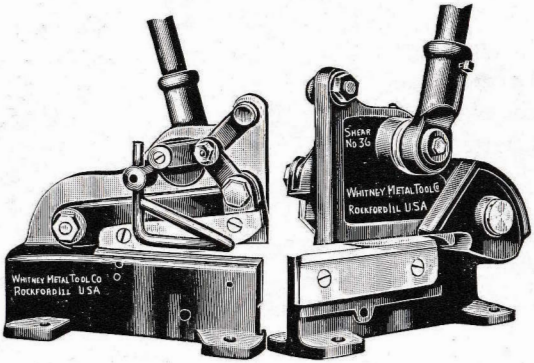
36-1	Shear frame	$12.00
36-2	Shear blade arm	6.00
36-3	Operating crank	4.00
36-4	Operating connecting link (upper and lower)	2.00
36-19	Operating connecting link (center)	2.00
36-5	Stock hold down	2.50
36-6	Stock hold down stud	1.00
36-7	Lower shear blade	3.00
36-8	Upper shear blade	3.00
20-12	Operating socket handle	3.00
36-9	Operating crank collar	1.00
36-10	Upper connecting link bolt and nut	1.00
36-11	Center connecting link bolt and nut	1.00
36-12	Lower connecting link bolt	1.00
36-13	Shear arm hinge bolt	1.50
WS1337	Shear arm hinge bolt nut	.20
36-14	Crank pin washer	.20
WS1065	Crank pin washer screw	.20
WS307	Shear blade screws, upper or lower, 4 required, ea.	.20
WS700	Lower shear blade adj. screws	.15
10-7	Operating socket handle washer	.20
WS713	Operating washer screw	.15
36-15	Needle roller bearing, 3c ea. (74 in set), per set	1.75
WS1335	Upper connecting link bolt nut, 2 required, ea.	.10
WS1334	Center connecting link bolt nut, 1 required	.15

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Shear No. 36



Capacity	10 gauge iron
Weight	20 lbs.
Length of cutting blades	7 inches
Length of Shear over all	11 inches
Height of Shear over all	10 inches
Price of Shear with hold down	$41.00
Price of extra Shear blades	3.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Be Sure the Letter W TRADE MARK Is on ALL Your

PUNCHES AND DIES

They Are Made in Our Own Factory and Are Genuine

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Parts on Nos. 36-G, 36-T, and 36-B

GAGE—36-G

36-18-1	Length gage rod	$ .50
WS717	Length gage rod set screw	.10
3-10	Gage stop head	1.50
WS1936	Gage stop head wing nut	.20

WORK TABLE—36-T

6-16	Table proper casting	$6.00
WS14	Table cap screws, each	.15
6-17	Table stop gages, each	.20

BASE—36-B

36-16-1	Base proper	$4.40
WS32	Base and shear cap screws, each	.10
36-16-2	Base binding bolt	1.00
36-16-3	Base binding bolt turnbuckle nut	1.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

To Get Results Use
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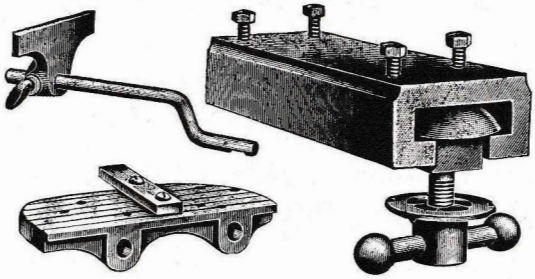
TRADE W MARK

There Is a Difference

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Shear Gage 36-G — Shear Table 36-T — Shear Base 36-B



Price Shear Gage No. 36-G, each, complete $2.00
Price Shear Base No. 36-B, each, complete 6.00
Price Shear Table No. 36-T, each, complete 6.00

f. o. b. Rockford, Ill.

The length Gage No. 36-G is used in connection with the No. 36 Shears and is valuable for cutting work to equal lengths.

The Base No. 36-B is used as a handy device on the No. 36 Shears and can be held secure or removed from the bench in a moment. Note the large turnbuckle nut. The Shear can be held secure to the base with the four cap screws furnished permanently if desired, and the Shear used as a portable unit. The Base is light in weight and a very useful item.

The Work Table No. 36-T is also used in connection with Shear No. 36. This handy unit can be held permanent with the Shear or removed in about one minute by the means of removing two cap screws furnished.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 4 Angle Iron Shear Parts

4-1	Base	$22.50
4-2	Movable shear arm	13.50
4-3	Operating handle	6.00
4-4	Gear flange support	2.00
4-5	Base hinge bolt and handle hinge bolt, ea.	1.75
4-6	Base shearing die	12.00
4-7	Movable shear blade	5.00
WS318	Movable shear blade screw	.20
4-8	Base die shear screw, 3 required, each	.40
WS1346	Hinge bolt nut, 4 required, each	.15
4-9	Hinge bolt washer, 4 required, each	.10
WS636	Angle adj. screw	.40
WS1333	Adj. screw lock nut	.15
WS1607	Gear flange support dowel pin	.15
4-11	Bar handle	3.50
4-13	Stock support stud	1.25
WS658	Stock support stud set screw	.15
WS1335	Stock support stud set screw nut	.10
WS1338	Stock support stud lock nut	.25

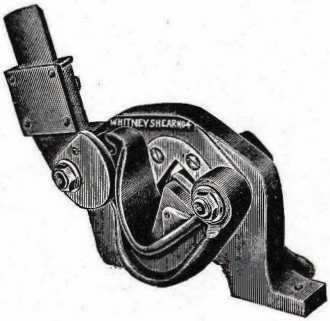
f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Do not insert Slugs in the end of Spindle of Ball Bearing Type Machines as this will break Punches. After the Punch Coupler has been securely tightened, the Punch should Revolve Freely.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 4 Angle Iron Shear



CAPACITY 2"x2"x¼" ANGLE IRON

Weight ..... 44 lbs.
PRICE $50.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Above shear has inserted tool steel blades and also self-clamping rest pad, and is provided with adjusting screw for cutting light angles off square, adjusting screw at end of self-supporting pad, no clamping being necessary. It has equal distribution of leverage over the entire surface of the cutting blades on account of eccentric gear. Material in this shear is of the highest grade. All wearing parts hardened throughout. Manufactured in drill jigs and fixtures so that all parts are interchangeable.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 62 Angle Iron Shear Parts

62-1	Base	$45.00
62-7	Movable shear arm	28.00
62-9	Operating gear handle	11.00
62-5	Movable arm bolt	3.00
62-4	Operating gear handle bolt	3.00
62-2	Base shearing die	23.00
62-8	Movable shear blade	10.00
62-3	Base shearing die screw, 3 required, each	.50
WS327	Movable shear blade screws, 2 required, each	.25
62-6	Movable arm washers, 4 required, each	.20
WS1373	Movable arm bolt nuts, 4 required, each	.35
WS662	Angle adjusting screw	.60
WS1335	Angle adjusting screw lock nut	.10
4-11	Bar handle	3.50

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

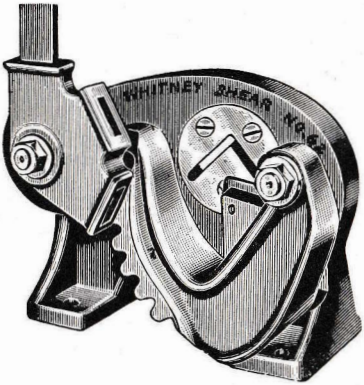
Be Sure the Letter TRADE W MARK Is on ALL Your

PUNCHES AND DIES

They Are Made in Our Own Factory and Are Genuine

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 62 Angle Iron Shear



CAPACITY 3"x3"x¼" ANGLE IRON

Weight ..... 154 lbs.
PRICE $130.00

f. o. b. Rockford, Ill.

This Shear will distort the refuge end of the angle but it only requires a few blows with a hammer to straighten same. This distortion cannot be avoided with this construction. The shear, however, is meeting with approval, as we are receiving repeat orders.

Above Shear is built on the same principle as our famous No. 4 Angle Iron Shear only it being heavier and more powerful.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 49 Notcher Parts

49-1	Notcher base frame	$30.00
24-3	Spindle	16.00
20-12	Operating handle	4.00
24-5	Dust cap	1.65
24-4	Ball race sleeve	11.35
WS631	Ball race sleeve set screw	.15
20-10	Stop collar	2.00
10-7	Handle washer	.15
WS16	Handle washer screw	.15
WS788	Stop collar screw	.15
WS1807	Ball bearings, 38 required, 12c ea., per set	1.00
49-2	Punch coupling nut	1.25
49-3	Wrench for punch coupler	.80
49-4	Shearing blade holder, 90 degree standard eqpt.	20.00
49-5	Shearing blade, 90 degree standard equipment	4.00
49-6	Lower die, 90 degree standard equipment	20.00
49-7	Coupling pin	1.25
WS1067	Shearing blade holder set screw	.20
WS220	Die screw	.30
WS1067	Shearing blade screw	.20
49-8	Gauge plate	4.00
WS31	Gauge plate screw	.15
50-25	Coupling plug	.25

Front Gauge Device

49-10-1	Front gauge bracket	$ 4.50
WS66	Front gauge bracket cap screw, each	.20
49-10-2	Front sliding gauge	3.00
49-10-3	Hold down screws, each	.20
49-10-4	Front binding screw	.80
50-9-2	Punch holder set screw	.20
49-9	Stripper fingers, each	1.00
WS31	Stripper finger screws, each	.15

Special Degree and Coping Parts

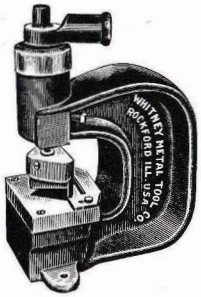
49-11	Shearing blade holder	$27.00
49-12	Shearing blade, 1½″ coping	6.00
49-13	Lower die, 1½″ coping	27.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

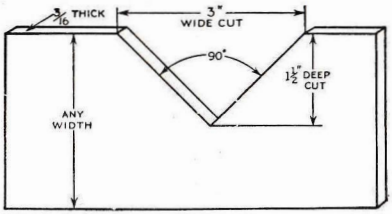
No. 49 Ball Bearing Notcher For Sheet Metal or Angle Iron



Capacity of standard tool 90 degree notch 1½" deep through $\frac{3}{16}$" sheet metal or angle iron.

Weight	65 lbs.
Price without Punch and Die	$ 65.00
Price with 90° Punch and Die	109.00
Front bracket device	8.50
Price of special degree notching and die	60.00
Price of coping punch and die	60.00

f. o. b. Rockford, Ill.



No. 49 machine is furnished with a 90 degree notching punch and die as regular equipment, all other sizes are special and can be made up on order. This machine is equipped with depth gauge so that any depth of notch can be cut up to and including 1½" by adjusting gauge.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 50 Mitre Notcher Parts

50-1	Mitre notcher base frame	$30.00
20-3	Spindle	13.50
50-2	Ball race sleeve	11.35
WS1807	Ball bearings, 12c ea. (30 in set), per set	.90
WS643	Ball race sleeve set screw, 2 required, ea.	.20
20-4	Dust cap	1.65
50-4	Operating handle	4.00
50-5	Shearing blade holder, 90 degree standard equipment	20.00
20-11	Punch coupling nut	1.25
50-6	Shearing blade, 90 degree standard equipment	4.00
50-7	Lower die, 90 degree standard equipment	20.00
WS785	Stop collar set screw, 3 required, ea.	.15
50-8	Front clamp screw spring	.25
50-9	Front clamp screw	.80
50-10	Clamp for holding angle iron	4.00
50-11	Flat stock handle	2.50
50-12	Coupling pin	1.25
20-10	Stop collar	2.00
50-15	Punch holder set screw, 2 required, ea.	.30
WS318	Die screw, 2 required, ea.	.20
WS300	Shearing blade screw, 2 required, ea.	.20
10-7	Handle washer	.15
50-16	Clamp hold down screw, 2 required, ea.	.40
50-25	Pressure plug	.10

No. 51 Bender Parts

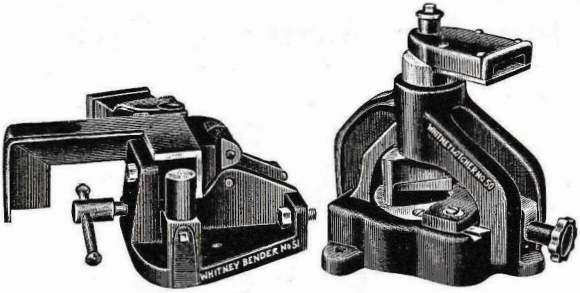
51-1	Bender base frame	$20.00
51-2	Operating handle	8.00
51-3	Operating handle swivel block	4.00
51-4	Operating handle swivel block stud	.70
51-5	Stationary jaw, steel	3.50
51-6	Movable clamp jaw	2.50
51-7	Movable clamp jaw arm	2.00
51-8	Movable clamp jaw pin	.20
51-9	Handle hinge bolt	2.00
WS236	Stationary jaw screw	.20
WS53	Vise handle screw, complete	2.00
WS1648	Stationary jaw pin	.30
50-11	Flat stock handle	2.50
51-15	Clamp jaw spring	.25
51-17	Angle iron post support	1.25
WS626	Angle iron post support screw	.20
51-18	Eccentric adjusting bushing	.40
51-19	Eccentric adjusting bushing key	.20
51-16	Handle hinge bolt nut	.40
51-8	Movable clamp jaw arm pin	.20

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 50 Angle Iron Mitre Notcher and No. 51 Angle Iron Bender



CAPACITY 2"x2"x¼" ANGLE IRON OR SMALLER

Weight of Mitre Notcher only	55 lbs.
Weight of Mitre Notcher Bender only	43 lbs.
Price of No. 50 Mitre Notcher including 90° Notching Punch and Die	$100.00
Price of No. 51 Mitre Notcher Bender	41.70
Price of Special Degree Notching Punch and Die	60.00
Price of Coping Punch and Die	60.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Ball Bearing Spindle

The No. 50 Machine is furnished with a 90 degree Notching Punch and Die as regular equipment. All other sizes are special. Will cope all size of angles to 2"x2"x¼".

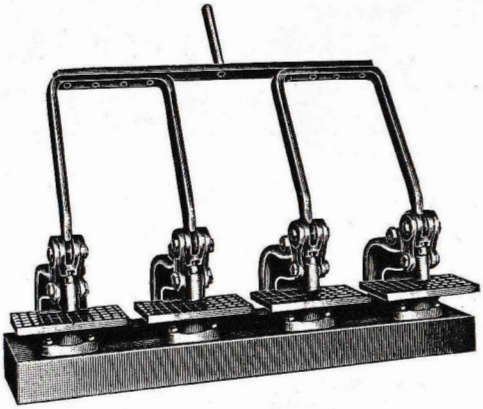
The No. 51 Machine bends flats as well as angles.

Special Degree and Coping Parts

50-21 Shearing blade holder	$35.00
50-19 Shearing blade	6.00
50-20 Lowering die	35.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

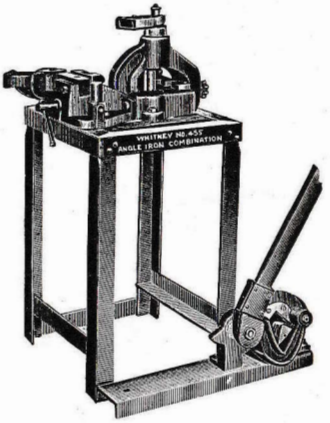
One of The Many Special Punches Made to Order



4 No. 16 Punches in a Gang

Let Us Help Solve Your Punching Problems

Angle Iron Machinery
Angle Iron Combination No. 455



CAPACITY: All sizes of angles up to including 2"x2"x¼" Angle Iron.

Price complete, including Angle Iron Shear No. 4, Mitre Notcher No. 50, Bender No. 51, and Stand $225.00

Weight .....214 lbs.

f. o. b. Rockford, Ill.

A Complete Unit for working Angle Iron

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 53 Universal Bender Parts

53-1	Bending jaw casting	$37.50
53-2	Bending jaw base	35.00
53-3	Bending block anvil	8.00
53-4	Bending block bolt	2.00
53-6	Bending block bolt washer	.25
53-7	Taper wedge	2.50
53-8	Wedge base plate support	1.50
53-9	Clamping cam jaw	12.00
53-10	Clamping cam jaw bolt	.50
53-11	Clamping cam jaw washer	.25
53-12	Handle spindle cam	6.00
50-4	Flat bar handle socket	4.00
4-11	Flat bar handle	3.50
53-13	Anvil guide	3.75
10-7	Handle washer	.15
53-14	Bearing plate washer	6.35
53-15	Handle Spacer	.30
53-5	Handle for bending block bolt	6.85

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

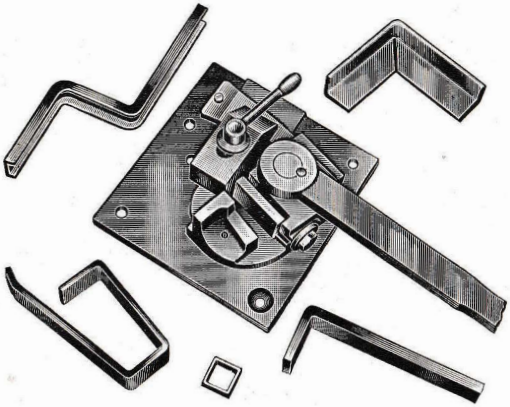
To Get Results Use
Genuine Punches and Dies Marked Thus:

TRADE W MARK

There Is a Difference

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Universal Bender No. 53



Capacity ½"x2¼" commercial iron.
Size of bender proper 12"x12" not including handle.

Weight	60 lbs.
Depth of jaw	2⅜"
Price	$75.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Smallest rectangular shape which can be bent is 2½"x3"; smallest square shape 3"x3"; and all sizes of angles up to and including 2½"x2½"x⅜".

This bending fixture is very simple to operate. Nothing to get out of order. Has a self clamping device, eliminating any straightening to be done after the bending has been completed as handles have automatic tension feature.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 60 Mitre Notcher Parts

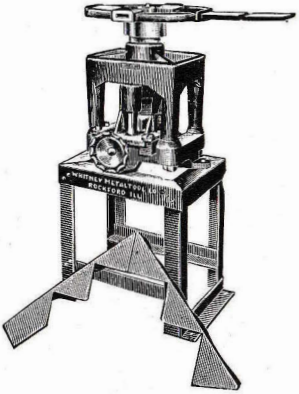
60-1	Main base	$40.00
60-2	Top plate	25.00
60-3	Spacing stud, not ground, 2 required, ea.	3.00
WS1373	Stud nuts, 8 required, ea.	.35
60-4	Lower notching die, 90 degree standard equipment	25.00
WS330	Die screws, 2 required, ea.	.20
60-5	Upper shearing blade, 90 degree standard equipment	8.00
WS1616	Shearing blade dowel pins, 2 required, ea.	.10
60-38	Shearing blade screws, 2 required, ea.	.15
60-7	Shearing blade holder, 90 degree standard equipment	25.00
50-10-2	Locating pointer	.30
WS1909	Locating pointer screw	.15
60-8	Spindle	20.00
60-9	Ball race sleeve	18.00
WS1808	Ball bearings (34 in set), 12c ea., per set	.90
60-10	Punch guide stud, ground, 2 required, ea.	4.00
60-11	Dust cap	2.25
60-12	Spindle stop collar, lower	2.50
60-13	Spindle stop collar, upper	2.00
WS788	Stop collar set screws, 3 required, ea.	.15
60-14	Stop collar locking ring	.20
60-15	Hand wheel washer	.25
WS31	Hand wheel washer screw	.15
60-16	Clamp nut for ball race sleeve	3.00
WS602	Sleeve clamp nut locking screw	.15
60-17	Spindle coupling stud	2.50
WS847	Spindle coupling stud lock screw, 2 required, ea.	.15
60-18	Coupling stud lifting screws, 2 required, ea.	.20
60-19	Spindle end thrust bearing, complete	6.00
60-20	Lower notching die, special degree	35.00
60-21	Upper shearing blade, special degree	10.00
60-22	Shearing blade holder, special degree	35.00
60-23	Clamp for holding angle iron	8.00
60-24	Clamping screw	.35
60-25	Clamping hand wheel	.90
60-26	Clamping hand wheel pin	.10
60-27	Clamp hold down stud	2.50
60-28	Clamp hold down stud washer	.15
WS31	Clamp hold down stud washer screw	.15
60-29	Clamp spring	.25
60-30	Socket hand wheel	18.00
60-31	Angle iron base	35.00
4-11	Operating handle, flat bar	3.50

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 60 Angle Iron Mitre Notcher



CAPACITY: 3"x3"x3/8" Angle Iron or Smaller.

Weight	250 lbs.
Price, complete with Stand	$225.00
Price of Special Degree Notching Punch and Die	80.00
Price of Coping Punch and Die	80.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

The No. 60 Machine is furnished with a 90 degree Notching Punch and Die as regular equipment. All other sizes are special. Will cope all sizes of angles to 3"x3"x3/8".

The above Angle Iron Mitre Notcher is equipped with Ball Bearing Spindle, Ball Bearing End Thrust, Socket Operating Handle, Screw Clamping Device, inserted Tool Steel Shearing Blades. Punch enters die by means of guide pins. Parts interchangeable.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 61 Bender Parts

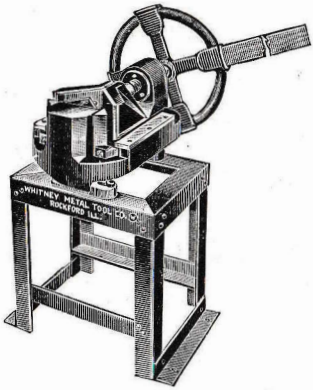
61-1	Main base	$30.00
61-2	Movable jaw casting	20.00
61-3	Movable jaw plate, overall length 4⅝"	1.40
61-4	Movable jaw plate, overall length 5"	2.00
WS317	Steel plate screws, 4 required, each	.15
WS1620	Steel plate pins, 4 required, each	.10
61-5	Anvil steel jaw	6.00
WS268	Anvil steel jaw screw	.25
61-6	Angle iron support, right hand	3.00
61-7	Angle iron support, left hand	3.00
WS227	Angle iron support screw	.20
61-8	Spindle	20.00
60-19	Spindle end thrust bearing, complete	6.00
61-9	Gib plates, right hand	3.00
61-10	Gib plates, left hand	3.00
WS220	Gib plate screws, 6 required, each	.20
60-17	Spindle coupling stud	2.50
WS632	Coupling stud lock screw	.15
60-18	Coupling stud lifting screws, 2 required, each	.20
61-11	Ball race sleeve	18.00
61-12	Spindle sleeve magazine pins, 2 required, each	.75
61-13	Spindle sleeve end washer, 2 required, each	.50
WS1041	End washer screws, 6 required, each	.15
61-14	Socket hand wheel, complete	22.00
60-15	Hand wheel washer	.25
WS31	Hand wheel washer screw	.15
WS1808	Ball bearings, 70 required, each	.12
61-15	Angle iron base	35.00
61-16	Bar handle, 4 required, each	1.50

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

No. 61 Angle Iron Bender



CAPACITY: 3"x3"x3/8" Angle Iron or Smaller.

Weight ..... 238 lbs.

Price, complete with stand $130.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

This machine can be used for bending most any shape by using special jaws to suit; such as flats, angles, T-iron, etc.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

NINETEEN NEW IMPROVEMENTS

OVER OTHER STEEL BENDING BRAKES

1 Combination, for plain bending, and box or pan bending.

2 Instantaneous adjustment for different thickness of metal. No guess work.

3 Welded steel plate box type construction. 50% more gripping power and less deflection.

4 Any desired space of opening between the jaws can be had; unnecessary to complete the cycle of the cam of clamping handle.

5 Cast iron gib plates (adjustable) to take up wear; wearing surface, cast iron against steel.

6 Full 2 inch opening between the jaws on the clamping handle; opening can be increased to 4 inches.

7 The upper bending jaw can be moved toward rear of machine 6 inches from bending apron.

8 Rear back gauge provided and liberal rear open space.

9 Bending against stationary upper bending jaw.

10 Stops provided to assure a fixed opening between the jaws of the machine.

11 The upper bending jaw can be moved to 10 degree angle in relation to front bending apron.

12 Because of the 2 inch up and down opening and 6 inch forward and backward movement a large range of special work can be done.

13 A dual machine, one floor space, one investment, hundreds of jobs can be done because of universal features.

14 Upper bending jaw is so graduated to insure proper alignment.

15 Reinforced front angle iron support.

16 Hardened and ground hinge pins, polished bending nose for stainless steel.

17 Because of our universal design, taper work can be securely held between the jaws, also conical work can be accomplished.

18 All jaws including the upper rail, lower jaw, the apron and filler plate are hardened.

19 The 12, 14, and 16 gauge types are equipped with roller bearings, decreasing the force necessary to swing the apron when making a bend 12 to 14%.

DESIGN

In the design of our Steel Bending Brakes we have given every consideration to the matter of strength. The latest improvements of real value have been incorporated in these Machines and at the same time complicated design has been studiously avoided. Sturdy construction throughout, yet easy to operate.

Price
Air Conditioning Special Brake

Bending Type Only

4′ 20 gauge Bench Type skidded $159.00
4′ 20 gauge Floor Type skidded 180.00

Air Conditioning Special Brake

Bending and Box Finger Style

4′ 20 gauge Bench Type skidded $184.00
4′ 20 gauge Floor Type skidded 205.00

Brake Fingers

Air Conditioning Type Fingers, 4″ depth, per lineal in. $2.40

SEE QUANTITY FINGER DISCOUNT, PAGE 1

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f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

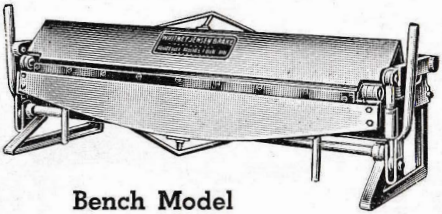
The frame of the Bench type may be bolted to a bench through the lower angle members, which have extended forefeet to give adequate support for all bending operations or a sub-base frame of angle iron with a tubular tie rod and angle feet to convert the bench model for floor use.

The apron is of welded steel plate construction with a truss stiffener, and is pivoted on hardened and ground steel pins to insure lasting accuracy. Two removable front plates are set into the upper edge to take the principal stress of the bend. By removing one of them reverse bends as short as $\frac{3}{16}$″ can be made.

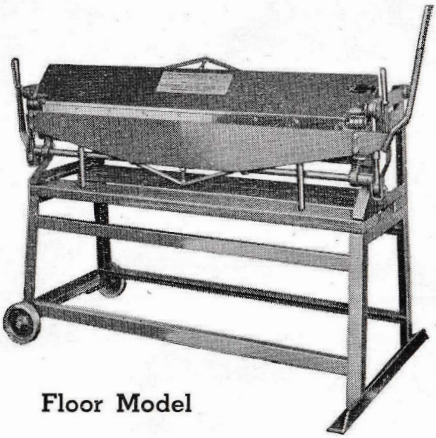
PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Whitney-Jensen Portable "Air Conditioning Special"

4 ft., 20 ga. Bending Brake



Bench Model



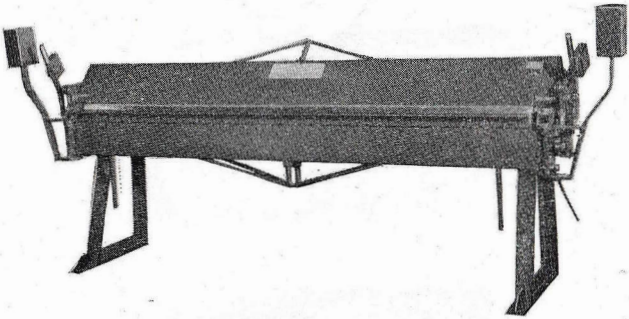
Floor Model

The "Air Conditioning Special" is a PORTABLE Brake, weighing only 265 pounds (Bench Model). It is also available in a COMBINATION Type, suitable for box and pan bending as well as all kinds of straight bending.

SPECIFICATIONS	Bench Type	Floor Type
Overall length	61″	61″
Overall height	20″	43″
Depth, front to back	24″	24″
Capacity, width	49″	49″
Maximum opening between jaws	1⅛″	1¾″
Net weight	265	290
Approximate shipping weight	325	400

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Whitney-Jensen 18 Gauge Combination Bending Brake



	Approximate Shipping Weight	Price
5 foot	1015 lbs.	$250.00
6 foot	1090 lbs.	270.00
8 foot	1550 lbs.	300.00
10 foot	1940 lbs.	525.00

SEE BOX FINGER PRICES ON PAGE 87

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

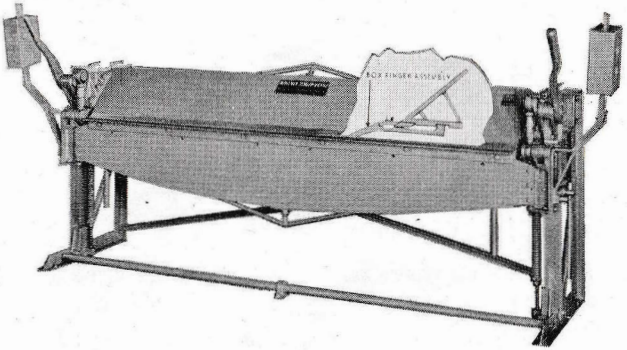
FOR CONSTRUCTION FEATURES SEE PAGE 88

FOR COMBINATION SERVICE

This Brake is designed for box and pan bending, as well as all types of straight bending, the change over from one to the other being accomplished quickly, easily, and accurately. By loosening two clamp nuts at each end, the upper jaw may be cammed up into the correct position to receive the movable box fingers which are clamped to the front edge. The upper jaw assembly is carried on four studs in guiding slots with locating offsets which permit rapid positioning for either service.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Combination Roller Bearing Bending and Box Brake



Size	Feet	Inch	Capacity	Approx. Shipping Weight	Price
16-4	4	1	16	1300	**$275.00**
16-5	5	1	16	1400	**342.00**
16-6	6	1	16	1900	**375.00**
16-8	8	1	16	2520	**450.00**
16-10	10	1	16	3300	**667.00**
14-4	4	1	14	1410	**300.00**
14-5	5	1	14	1525	**425.00**
14-6	6	1	14	2070	**450.00**
14-8	8	1	14	2675	**575.00**
14-10	10	1	14	3485	**775.00**
12-4	4	1	12	1800	**400.00**
12-5	5	1	12	2000	**520.00**
12-6	6	1	12	2600	**640.00**
12-8	8	1	12	3850	**775.00**
12-10	10	1	12	5200	**1000.00**

Standard Pan or Box Fingers, 6″ depth used in 18, 16 and 14 gauge machines, per lineal inch.....$3.00

Box Fingers are made in Multiples from 2 inches to 6 inches by ½ inch variation and 8″ in width, 6″ depth.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Brake Forming Moulds

Sizes	4′	5′	6′	8′	10′
5/8″	$1.15	$1.50	$2.25	$3.00	$3.50
1″	1.75	2.00	2.75	3.50	4.25
1 5/8″	2.50	2.75	3.25	4.00	5.00
2 1/4″	3.00	3.25	3.75	4.75	5.75
3″	3.75	4.25	4.75	5.75	6.50
Price complete Set of Five	12.15	13.75	16.75	21.00	25.00

Clamps furnished gratis when full set is purchased at one time, otherwise price is 15c each list.

NOTE:—When ordering in less than a complete set of 5; that is, in broken lots, there will be a 10% additional to individual prices above.

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All Machines are skidded for Domestic Shipment without extra cost. Price of boxing for Export Shipment quoted on Application.

CONSTRUCTION FEATURES OF WHITNEY-JENSEN BRAKES

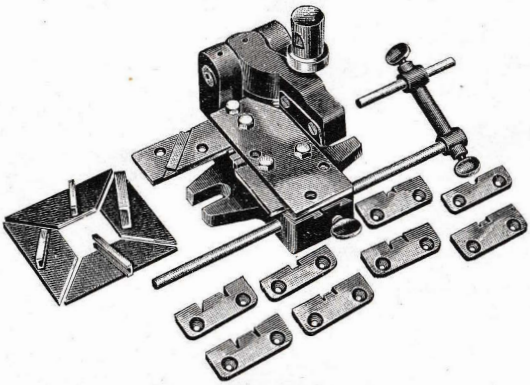
The upper and lower jaws, and the bending apron, are of welded steel plate construction with angle and truss stiffeners. This construction has proved eminently satisfactory on the hundreds of Whitney-Jensen Brakes now in use, as it provides an ideal combination of lightness, accuracy, and durability. The lower jaw is fixed and clamping of the work is accomplished by moving the upper jaw down to it by two counterweighted levers working through toggle connections which are adjustable for thickness of material. Hardened and ground apron and toggle pins are used. All parts are accurately machined and carefully assembled.

On all Whitney-Jensen brakes the jaws including the upper rail, lower jaw, the apron and filler plate are hardened. This is practical in the forming of stainless steel.

When forming stainless steel, the capacity of the machine drops two gauges.

Whitney-Jensen brakes will bend a 1/2″ edge.

Power Punch Cut-Off Set No. 55



Price of fixture with regular equipment	$75.00
Shear blades, for above fixture, per set	7.00
Weight	42 lbs.
Shipping weight	60 lbs.

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SEE DISCOUNT SHEET, PAGES 1 AND 2

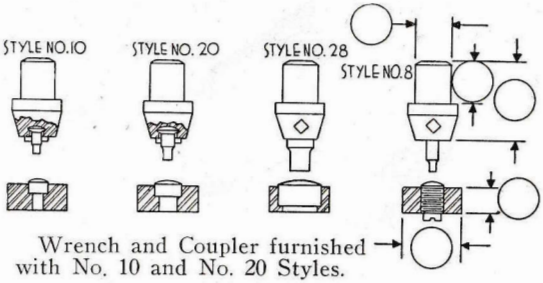
Capacity all sizes up to and including ¼″ x 2″ flats, ½″ round or square, also channels all sizes up to and including 1½″ x ½″ x 3/16″. Will cut off flats at 45 or 90 degrees.

Regular equipment consists of a length gauge, hold down plate, plunger pin, and one set of shearing blades.

This Cut-Off fixture will fit any ordinary press and does not require any skill to set up. Blades are always in perfect alignment. Shearing arm rocks on a hardened and ground alloy steel wrist pin. The entire fixture is built of an alloy steel casting.

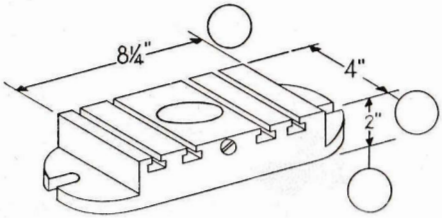
PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Combination Punch and Die Set No. 56

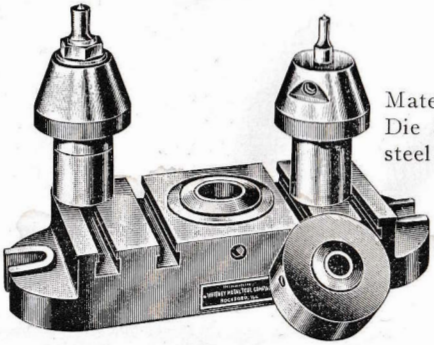


Wrench and Coupler furnished with No. 10 and No. 20 Styles.

By using these combinations of punch holders and die shoes, you can use our standard punches and dies, effecting a big savings. Over 200,000 carried in stock.

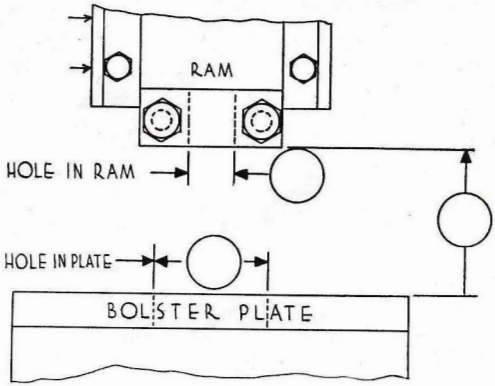


Standard Die Shoe No. 2826. Top surface 4″ x 8″. T slats for ⅜″ bolts.



Material in Die Shoe is steel casting.

CAUTION: Be sure and fill in all dimensions, distance between ram and bed plate, when ram is down adjustment up, stroke of press, diameter and depth of hole in ram, and give name and number of machine. Other die shoes made to order.



Prices for above equipment are as follows:

1 Die Shoe Adaptor	$13.00
Die Adaptor for Nos. 7 and 8-Imperial Dies	4.00
Die Adaptor for Nos. 10, 11, 12 Dies	4.00
Die Adaptor for No. 20 Die	4.00
Die Adaptor for No. 40 Die	4.00
Nos. 8, 20, 28 Punch holders, ea.	6.50

No Adaptor used over No. 40 die sizes.

For Punch and Die prices see pages 3, 4, and 5.

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SEE DISCOUNT SHEET, PAGES 1 AND 2

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

STANDARD GAUGES

U. S. STANDARD GAUGES

No. of Gauge	Approximate Thickness in Inches: Steel	Approximate Thickness in Inches: Iron	Approx. Fraction	Wt. per Square Foot Iron or Steel
7-0's	.....	.5	1-2	20.00
6-0's	.....	.46875	15-32	18.75
5-0's	.....	.4375	7-16	17.50
0000	.....	.40625	13-32	16.25
000	.....	.375	3-8	15.
00	.....	.34375	11-32	13.75
0	.....	.3125	5-16	12.50
1	.2757	.28125	9-32	11.25
2	.2604	.265625	17-64	10.625
3	.2451	.25	1-4	10.
4	.2298	.234375	15-64	9.375
5	.2145	.21875	7-32	8.75
6	.1991	.203125	13-64	8.125
7	.1838	.1875	3-16	7.5
8	.1685	.171875	11-64	6.875
9	.1532	.15625	5-32	6.25
10	.1379	.140625	9-64	5.625
11	.1225	.125	1-8	5.
12	.1072	.109375	7-64	4.375
13	.0919	.09375	3-32	3.75
14	.0766	.078125	5-64	3.125
15	.0689	.0703125	9-128	2.8125
16	.0613	.0625	1-16	2.5
17	.0551	.05625	9-160	2.25
18	.0490	.05	1-20	2.
19	.0429	.04375	7-160	1.75
20	.0368	.0375	3-80	1.50
21	.0337	.034375	11-320	1.375
22	.0306	.03125	1-32	1.25
23	.0276	.028125	9-320	1.125
24	.0245	.025	1-40	1.
25	.0214	.021875	7-320	.875
26	.0184	.01875	3-160	.75
27	.0169	.0171875	11-640	.6875
28	.0153	.015625	1-64	.625
29	.0138	.0140625	9-640	.5625
30	.0123	.0125	1-80	.5
31	.0107	.0109375	7-640	.4375
32	.0100	.01015625	13-1280	.40625
33	.0092	.009375	3-320	.375
34	.0084	.00859375	11-1280	.34375
35	.0077	.0078125	5-640	.3125
36	.0069	.00703125	9-1280	.28125
37	.0065	.006640625	17-2560	.265625
38	.0061	.00625	1-160	.25

Should your customer ask to punch a certain size hole in a c
number Punch to use.

Example No. 10 Ball Bearing, Capacity 3/8" h

Pressure required to punch 0.25 Carbon Steel

Circumference of Hole × Thickness of Plate (both in incl

Gauge of Plate, Inches	Diamet					
	1 1/4	1 1/8	1	15/16	7/8	13/16
1/8	24600	22100	19600	18400	17200	16000
3/16	36800	33100	29500	27600	25800	24000
1/4	49100	44200	39300	36800	34400	32000
5/16	61400	55200	49100	46000	42900	39900
3/8	73600	66300	58900	55200	51500	47900
7/16	85900	77300	68700	64400	60100	55900
1/2	98200	88400	78500	73600	68700	63800
9/16	110400	99400	88400	82800	77300	71800
5/8	122700	110400	98200	92000	85900	79800
11/16	135000	121400	108000	101200	94500	87800
3/4	147300	132500	117800	110400	103100	95800
13/16	159500	143500	127600	119600	111700	103700
7/8	171800	154600	137400	128800	120300	111700
15/16	184100	165600	147200	138000	128800	119700
1	196400	176700	157100	147200	137400	.....
1 1/8	220900	198800	176700	165600	.....	.....
1 1/4	245400	220900	196400	.....	.....	.....

ertain thickness refer to this chart in recommending to him what

ole in ¼" iron pounds pressure 14,700 Pounds, etc.
of 65,000 Pounds per Square Inch Tensile Strength.
hes) × 50,000 = Pressure required in Pounds, approximately.

er of Punch, Inches

¾	11/16	⅝	9/16	½	7/16	⅜	5/16	¼
14700	13500	12300	11100	9800	8600	7400	6100	4900
22100	20300	18400	16600	14700	12900	11000	9200	7300
29500	27000	24500	22100	19600	17200	14700	12300	9800
36800	33800	30700	27600	24500	21500	18400	15300	12300
44200	40500	36800	33200	29500	25800	22100	18400	14700
51500	47300	42900	38600	34400	30100	25800	21400	.....
58900	54000	49100	44200	39300	34400	29600	.....	.....
66200	60800	55200	49700	44200	38700	.....	.....	.....
73600	67500	61400	55300	49100	.....	.....	.....	.....
81000	74300	67500	60900	.....	.....	.....	.....	.....
88400	81000	73600	.....	.....	.....	.....	.....	.....
95700	87800	.....						
103100	.....	.....						
.....	.....	.....						
.....	.....	.....						
.....	.....	.....						
.....	.....	.....						

For Structural Steel Work. The clearance between punch and hole diameter in die should be 14% of the thickness of the stock punched.

For punching in Foot Presses, clearance as above should be 10%.

For Stainless Steel, Brass, Bronze and Tin. The punch and die must have a close sliding fit to eliminate burr around the hole.